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# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

JANUARY 1, 1951



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**Jan. 24 to 26. Michigan Association of Nurserymen**

Bert Welch

**Jan. 25 and 26. Ohio Nurserymen's Association**

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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# AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

## Editorial

### HAPPY NEW YEAR!

The prospect of dislocation of the country's economy during 1951 by government controls necessary to speed military preparedness clouds the view for nurserymen as well as for other businessmen. Shortages of supplies have already developed, and a shortage of labor is almost certain. But recollections are still clear as to how these handicaps were met in wartime, and nurserymen will contrive by their ingenuity to meet whatever is required of them in a time of emergency.

At such a time, as was proved also in wartime, their products derive a special usefulness to the public, as travel and other pleasures are restricted, and the mission of providing beauty, enjoyment and relaxation in a troubled time is one to be taken seriously. When devastation is going on in foreign lands, the purpose to "Plant America" assumes more importance.

So nurserymen of this country will have the opportunity of helping to make for their customers and the public what we now wish for our readers, a Happy New Year.

### BRAKE ON PLANT GROWTH.

If a customer asks about a spray to relieve him of lawn mowing or to make hedge trimming unnecessary, he has been reading about maleic hydrazide in some of the recent issues of garden magazines.

This chemical, developed only a little more than a year ago, is still in the hands of research scientists, who are seeking the safe limits of its application.

Two sprayings at intervals of a month are reported to have saved mowing a bluegrass lawn, but a third application killed the lawn.

Similarly, the chemical inhibited growth of a pyracantha hedge. It halted flower development on strawberries and black raspberries, encouraging the belief that the spray could be used to prevent damage from late frosts in spring. But apple blossoms were killed rather than retarded.

The chemical unquestionably slows or halts plant growth, but how far a plant can be "doped" and continue

to thrive, or even live, is yet to be determined. Until accurate data are obtained in that respect, the dreams of the lazy gardener remain to be realized. But the experience with growth-stimulating substances and sprays to prevent fruit drop lend encouragement to their hopes and those of commercial fruit growers as well.

### SAVE CENTS OR CUSTOMERS.

To generalize on business practices is seldom practical, because one type of enterprise is different from another. And in the same line of business, one man may successfully operate in considerably different fashion than his fellow. But no businessman is likely to be an outstanding success unless he studies any criticism of his operations or any complaints from customers. And a customer's complaint always deserves thought, for usually more dissatisfied customers simply cease their patronage and say nothing than tell the seller the cause.

Since A. A. N. members have received a reprint of a short article in *Printers' Ink* magazine relating an unsatisfactory experience on a nursery order, some readers will be wondering as to its application to their own operations. In his column in this issue, E. Sam Hemming refers to this article and admits the nurserymen might well pay more attention to their acknowledgments of orders. In the case of the average nurseryman, it is inertia, rather than the saving, that lets an order go unacknowledged.

In the mail-order business, where orders are small and the turnover of customers admittedly is terrific, the saving of a penny here and a penny there is given study, whether it be in the handling of an order, in the assembling of stock or in packing and shipping. In some cases efficiency is carried to such a point that some firms might come close to boasting, like some food packagers, that the orders are not touched by human hands. Quite safe would be the statement that, individually, they are not touched by human thought.

System and efficiency are important, nay essential, to business success. But equally important is the satisfaction of the customer. The public is perfectly willing to buy some articles of merchandise from slot machines, but others it is not. The predicted spread of vending

machines through the merchandising world has been slowed by the desire of the public for individualized attention in making purchases.

To some mail-order operators already has come the question whether, in saving cents on each order to gain speed and efficiency, they have not lost customers. They wonder if the terrific turnover in mailing lists could not be reduced by more attention to the buyers. Statistics have never come up with an answer to the question why so small a proportion of mail-order customers repeat from year to year. The subject has been discussed at length wherever two mail-order nurserymen gather, and the answer would be worth real money to find.

### HEAVY LOSSES IN SOUTH.

Loss of nursery stock in the south following the November freezes was more widespread and damaging than the report in the preceding issue indicated. One prominent northern nurseryman of wide experience, on returning from the rose-growing district in east Texas, reported it the most depressing sight he had ever seen in the nursery district, estimating that at least seventy-five per cent of the crop is gone and the rest of it damaged to some extent.

In addition to the heavy loss of roses, peach trees were injured, while crape myrtles and other shrubs popular in the south were damaged and evergreens of tender types even killed.

In the southeast, the buds were frozen on azaleas and camellias, so that spring bloom is lost. Tender shrubs were similarly injured. Estimates as to losses vary from the optimistic, by individuals who think the plants may grow out of the injury, to the pessimistic, from nurserymen who fear the plants are completely killed. In any event, supplies of nursery stock in the south will be extremely short for the approaching season.

### CATALOGS.

Send a copy of your retail spring catalog to the editor, to complete the office reference file. This favor is much appreciated, and review will not appear under "Catalogs Received" unless requested. Copies of wholesale catalogs are, of course, desired as well.

# Soil Substitutes Save Shipping Weight

By Richard H. Fillmore, Propagator, Arnold Arboretum

Rising transportation charges are limiting the profits of many nurserymen, particularly of those who operate mail-order businesses. By combining equal portions of sphagnum moss and a suitable lightweight plastic material, the author has found it possible to save up to about sixty-five or even seventy per cent of the normal shipping weight of rhododendron (azalea) seedlings grown in 2½-inch plant bands (see figure 1).

The author's experiments have been confined to ten species and varieties of rhododendron (azalea) seedlings, but it would probably be possible to produce many species of plants in similar lightweight mixtures. Annuals, perennials and woody ground covers, which are usually grown in relatively small pots or bands, would be suitable subjects for trial by this method. *Cytisus*, *cotoneaster* and other species which are difficult to transplant might also be successfully grown in such lightweight mixtures. Granted a sufficient reduction in shipping weight, potted roses for spring planting might be profitably distributed over a wide area.

For many years, Albert W. Close (1) and his associates at the U. S. D. A. plant introduction garden, Glenn Dale, Md., have used shredded sphagnum moss as a lightweight growing medium for numerous species of plants. During World War II many thousand of cinchona plants were grown in sphagnum moss at this station. They were shipped by air express at a great saving in weight as compared with similar plants grown in ordinary soil. More recently, O'Rourke (4) has reported success in growing three species of *ilex* in sphagnum moss. These *ilex* species, when fertilized with a suitable nutrient solution, grew better in moss than in potting soil.

## Description of Materials.

The Styrofoam used in these experiments was contributed by R. N. Kennedy, plastics technical service, Dow Chemical Co., Midland, Mich. Any prospective user may obtain samples from Mr. Kennedy.

Styrofoam is a lightweight water-resistant plastic, which was originally developed for use in life rafts. It is now widely used in forms for

floral arrangements and as an insulating material. It is apparently absolutely nontoxic to plants, and it weighs less than two pounds per cubic foot in the form of ground Styrofoam A. About one-half of the particles in Styrofoam A will pass through a 3/16-inch mesh, and the remainder can easily be rubbed through a ½-inch.

Styrofoam is a relatively hard material which seems to impart a firm springy structure to soils, thus permitting good aeration and quick drainage of water. In mixtures with screened sphagnum or peat moss, it appears to prevent excessive settling of these soft materials. It would probably prevent excessive compaction of root systems when plants grown in these mixtures were packed for shipment or transplanted into ordinary soils. It is apparently practically inert in the soil. It does not deteriorate readily nor does it absorb appreciable quantities of water or mineral nutrients. These properties

make it a useful material for the preparation of lightweight soil mixtures and soil substitutes.

The Flowerite used in these experiments may be obtained from F. S. Burt, Dant & Russell, Inc., Equitable building, Portland, Ore. Flowerite is a lightweight granular material described as a sterile mineral sponge. It weighs about twelve pounds per cubic foot in the dry state, as compared to about ninety pounds for dry coarse sand. It will absorb considerable water, and it does not dry out so quickly as sand. In addition to its value as a lightweight constituent in soils, it has promise as a rooting medium.

## Containers.

*Rhododendron calendulaceum* seedlings grew much better in clay flower pots than in wooden plant bands. The latter deteriorated too quickly to permit a satisfactory completion of growth. It is quite possible that this difficulty could be overcome

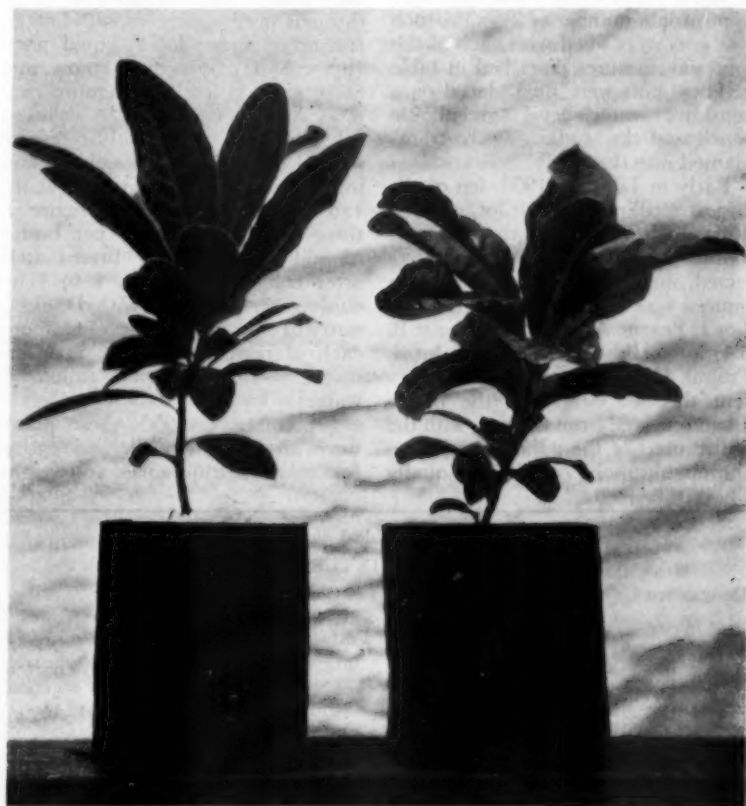


Figure 1. *Rhododendron mollis* hybrid, photographed November 17, 1950. Plant on left weighs four ounces; on right, eleven ounces. For explanation, see text. (Photo by Heman Howard.)



by additional fertilizers or by treating the bands with a suitable wood preservative. *Rhododendron Flamboyant*, planted in Vita-Bands 10 and Vita-Bands 40, made a much more satisfactory growth in Vita-Bands 10. Plants grown in Vita-Bands 10 showed no signs of nutrient deficiency at the end of the 5-month growing period. These Vita-Bands were contributed by Bird & Son, Inc., East Walpole, Mass.

#### Experiments.

During the past two years, the author has grown 2,269 *rhododendron* (*azalea*) seedlings for the purpose of comparing various containers, methods of watering, light-weight soils and soil substitutes. *Rhododendron schlippenbachii* and *R. mollis* hybrid have been selected for further discussion because the results obtained with these plants have been typical of the results as a whole. That is, insofar as economical shipping weight is concerned.

February 12, 1949, *Rhododendron schlippenbachii* seeds were sown in seed pans in sphagnum moss (2, 5) in a warm greenhouse. April 18, 1949, 120 uniformly well developed seedlings were divided into four lots of thirty each. At the same time, an appropriate number of 2½x3½-inch rose pots were filled with each of the four soil mixtures described in table 1. These pots were then placed on a constant water level greenhouse bench and the seedlings were transplanted into them.

Early in January, 1950, ten of the largest seedlings in each lot, ranging in height from one and three-fourths to four inches, were arbitrarily selected, and their average weight in ounces was determined as follows: Lot 1, Prague A, 4.3; lot 2, Prague B, 3.4; lot 3, Prague C, 3.3 and lot 4, Prague D, 2.2. These figures represent the net weight of the plants when removed from the pots with the entire mass of the adhering soil in a thoroughly moist condition. Equally

satisfactory growth was obtained in Prague A and Prague B, but the plants produced in Prague B were about one-fifth lighter than those grown in Prague A. Thus a considerable saving in shipping weight was effected by the use of Flowerite as a substitute for sand.

The plants did not grow satisfactorily in Prague C and Prague D, probably because of an inadequate supply of nitrogen and other mineral nutrients caused by the relatively small amount of decomposable organic matter in these mixtures. No attempt was made to equalize the nutrient content of any of these mixtures, but it is quite probable that adequate applications of nutrient solution would have produced satisfactory seedlings in Prague C and Prague D. Good growth in Prague D would have resulted in a saving of about one-half in the shipping weight of well grown plants.

July 22, 1950, 110 *Rhododendron mollis* hybrid seedlings were divided into five lots of twenty-two plants each, transplanted into 2½x2½x3-inch Vita-Band 10 plant bands and placed on a constant water level greenhouse bench. The several lots were planted in the following mixtures, all of which were screened through a ½-inch mesh: Lot 1, sphagnum moss; lot 2, equal parts (by volume) sphagnum moss and Styrofoam A; lot 3, sphagnum peat moss; lot 4, equal parts (by volume) sphagnum peat moss and Styrofoam A, and lot 5, Prague A soil containing powdered potassium alum at the rate of about six ounces (1 ounce = three level tablespoons) per bushel of soil mixture (3). Immediately after transplanting, lots 1 to 4 inclusive were watered with Dunlop's nutrient solution (one level teaspoon each of potassium nitrate and ammonium sulphate per gallon of water).

September 1, 1950, these plants were all growing well, and except for marked differences in weight,

there were no important differences between lots (see figure I). At that time, the weights in ounces of arbitrarily selected plants about two and one-half inches high were as follows: Lot 1, 5; lot 2, 3; lot 3, 7; lot 4, 4, and lot 5, 10. These weights include the entire plant with the soil and band in a thoroughly moist condition. If the plants in lot 5 are taken as a standard for comparison, the plants in lot 2 weigh seventy per cent less. If lot 1 and lot 2 are compared directly, the plants in lot 2 are forty per cent lighter than the plants in lot 1. These considerable savings in potential shipping weights were obtained without sacrificing the size or quality of the plants.

#### Conclusion.

Flowerite, Styrofoam A, sphagnum moss and sphagnum peat moss have been successfully used to formulate various lightweight soils and soil substitutes in order to facilitate economical distribution of *rhododendron* seedlings. The work of other investigators (1, 4, 5) suggests that many other species could be successfully grown by using similar methods. Clay flower pots and Vita-Band 10 plant bands have been equally satisfactory as growing containers in the conditions of these experiments.

The significance of these results in terms of economic advantage has been left for the evaluation of the individual grower.

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1. Close, Albert W. Correspondence, 1950.
2. Fillmore, Richard H. Growing *Rhododendrons* from Seeds. *Arnoldia* 9, No. 10: 45-51. 1949.
3. Kavka, Bohumil. Influence of organic and inorganic additions to soil on the growth of *Azalea indica*. *Hort. Sbor. Cesk. Akad. Zem. 12*, No. 5: 688-703. 1937.
4. O'Rourke, F. L. Shredded sphagnum moss as a growing medium for newly propagated American holly. *A.S.H.S. Pros.* 54: 505-507. 1949.
5. Stoutemeyer, Vernon, Claude Hope and Albert Close. Sphagnum for seed germination inhibits damping-off losses on unsterilized soil. *Natl. Hort. Mag.* 20: 111-120. 1941.

IN DECEMBER Stanley W. Leonard, of Leonard & Leonard, Pittsburgh, Pa., and his family enjoyed a vacation at Miami, Fla., where Mr. Leonard did some fishing in the Gulf stream. They planned a short trip to Nassau, too.

Table 1

#### SOIL MIXTURES

Designation	Leaf Mold	Proportions of Contents by Volume				
		Sphagnum Peat	Sedge Peat	Coarse Sand	Flowerite	Styrofoam A
Prague A . . .	2	1	1	1	0	0
Prague B . . .	2	1	1	0	1	0
Prague C . . .	1½	¾	¾	¾	0	1½
Prague D . . .	1½	¾	¾	0	¾	1½

Explanation of Table 1.

The standard soil mixture, designated as Prague A, was based on the recommendation of Kavka (3). Prague B was prepared by substituting Flowerite for the sand in Prague A; Prague C by combining one part Styrofoam A with two parts Prague A mixture, and Prague D by combining one part Styrofoam A with two parts Prague B mixture.



# Variety of Topics on Wisconsin Program

In spite of inclement weather and unfavorable roads, the sessions of the thirty-fourth annual convention of the Wisconsin Nurserymen's Association, at the Hotel Schroeder, Milwaukee, December 6 and 7, drew uniformly good attendance. Interesting speakers attracted fifty or sixty persons to each session, even the closing one when a blizzard was developing, while the banquet drew many more.

Officers were reelected upon the recommendation of the nominating committee, headed by J. P. Foster. These are: President, L. L. Kumlien, Kumlien Nursery, Janesville; vice-president, Howard Anderson, Nekeosa-Edwards Paper Co., Wisconsin Rapids; secretary and treasurer, Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay.

Two new members were elected to the board of directors, John Gartman, Gartman's Gardens, Fond du Lac, and Warren G. Brown, Brown Nursery Co., Hartland. Other directors are C. L. Wachtel, Wauwatosa; and Ed Eschrich, J. P. Foster and Robert A. Gieringer, all of Milwaukee.

A new set of bylaws was adopted, the work of the secretary and members of the board, to meet the changed conditions. Active members in the association now number sixty-seven, and associate members nineteen.

The satisfactory progress of the association and the favorable outlook of the industry as a whole were pointed out by President L. L. Kumlien in his opening remarks. The report of the treasurer indicated that expenditures of \$1,370 the past year about equaled receipts from dues, program book and convention exhibits, leaving net worth at the time of the meeting of \$1,262.42.

## Opening Addresses.

After the business session, Wednesday morning, December 6, the members heard, as luncheon speaker, Dr. Alfred D. Haake, economist and lecturer, who pointed out the perils in the current economic trend of government paternalism, business interference and high taxation and expenditures.

At the afternoon session, Wayne Ferris, Hampton, Ia., and John Wight, Cairo, Ga., respective president and vice-president of the American Association of Nurserymen, presented the highlights of the national

organization's current activities, as they did at the Minnesota association's meeting, reported in the preceding issue.

## Newspaper Advertising.

Especially informative and pertinent was the talk on newspaper advertising by nurserymen, by Homer Bendinger, classified advertising manager of the Milwaukee Journal. In introducing the speaker, President Kumlien pointed out that the Milwaukee Journal had carried more advertising in the first six months of 1950 than any other newspaper in the country, and the record was likely to be maintained for the entire



L. L. Kumlien.

year. Obviously this is the achievement of a competent, alert and aggressive advertising staff, of which the speaker was an excellent representative.

Mr. Bendinger had given much study to his topic and had obtained from newspapers in other Wisconsin cities samples of nurserymen's advertising, which he presented on display boards for study by the audience. Outline of his own work with Milwaukee nurserymen in cooperative advertising was informative.

By way of introduction, Mr. Bendinger pointed out that every nurseryman gives close attention to the production of his nursery stock and exercises constant care in its maintenance. He asserted that the promotion of sales deserved the same close attention and constant care.

At the outset, the nurseryman should ascertain just what he has to sell and to whom he wishes to sell it. Then he can select the proper media

for advertising. What is satisfactory for one type of business operation is not the best for another, and hence it is a mistake for one nurseryman to pattern his promotional work on that of another. For instance, wholesalers cannot build up their list of customers or obtain new buyers by direct-mail advertising, as it is too expensive.

The newspaper, said Mr. Bendinger, has universal appeal, as features in it interest every member of the family. It has known coverage, because the area and class of readers are obvious. It is flexible in time of presentation because of its daily appearance. The readers are receptive, for they come to look in the newspapers for certain types of advertising, whether chain grocery, department store or others.

Display advertisements, he said, seek the reader. The classified ad reader seeks what is advertised. Classified advertising may be said to include display ads grouped on a garden page as much as the liners of goods for sale and help wanted. The more classified advertising a paper carries, the more offers and the greater selection provided, and consequently the more readers. In some Sunday issues of the Milwaukee Journal appear as much as a column and one-half of nursery stock and garden supply offers among the liners.

In conclusion, Mr. Bendinger urged that the nurseryman describe his merchandise, not just list it with a price. Tell the buyer what the tree or shrub is like, how it will grow, where it is best used, etc., so as to make selection easy.

## Banquet Award.

The evening banquet was marked by the association's award of the year, presented by the president, to J. T. Fitchett, 70-year-old dahlia grower, of Janesville, Wis. Herbert Kimmel, a Janesville clergyman, delivered an inspirational address on "How to Live with Yourself." An excellent floor show was provided by Jesse Foster's committee.

## Plant Diseases.

The Thursday morning session, December 7, was given over to informative talks on plant diseases and pests. H. E. Halliday, of the state department of entomology, spoke on "Plant Diseases Threatening Wisconsin Shade Trees." He described

the phloem necrosis and Dutch elm diseases briefly, though they have not yet been found in Wisconsin.

He was specific in regard to the black spot on elms, a fungous disease caused by wet weather and causing defoliation. He advised raking up and burning the fallen leaves to avoid spread of the spores. Preventive measures were sprays of Bordeaux 4-4-50, used first when the leaves unfold in spring, second when the leaves are of full size and a third time three weeks later.

He presented to the nurserymen copies of a 5-page mimeographed bulletin on dormant sprays for insect pests and diseases of nursery stock.

Explaining that revision of the printed bulletin on pests of ornamental plants had been proceeding, but plans were lacking for early printing, Mr. Halliday distributed mimeographed sheets, each referring to a particular pest and its control. In this piecemeal form, distribution of the revised bulletin will be undertaken. Copies can be obtained from the State Entomologist's Office, State Capitol, Madison, Wis.

Philip Smith, also of the state department of entomology, talked on pests the nurseryman should know and recognize. He divided them into four groups, as eating the roots, boring the trunk, sucking the sap and feeding on the leaves.

White grubs can be controlled in soil used for evergreen seedlings by the application of 100 pounds to the acre of ten per cent Chlordane, tilled into the soil at a depth of eight inches. This treatment is effective for four years, but it is too expensive for other types of stock. He commented that white grub eggs are not laid where such legumes are grown as sweet clover and alfalfa, but, on the other hand, a weevil that infests sweet clover also damages strawberries.

The borers that damage birch, apple, mountain ash and maple trees make their appearance shortly after the trees are root-pruned or transplanted or otherwise weakened, as with age. Mr. Smith thought wrapping the trees for two years after transplanting would be a preventive. He suggested spraying with a one and one-half per cent solution of wettable fifty per cent DDT on the tree branches during May and June, when the eggs are laid.

Among sucking insects, scales on Scotch pine and on taxus are particularly bothersome. Mr. Smith advised sprays applied at the time the young emerge from the protection of

the mother scale. As that is a busy time for nurserymen in the spring, dormant spraying will be preferred by some. He emphasized that caution should be used in applying dormant sprays. Do not use more than the amount advised, as successive doses can cause injury to the plants. Be sure, also, that the plants are dormant when such sprays are applied.

The insects feeding on leaves, he said, were easiest to control, as sprays containing stomach poisons were quite effective.

#### Oak Wilt.

Prof. James E. Kuntz, division of forest pathology, University of Wisconsin, gave a rapid and thorough



Dr. C. J. Birkeland.

account of the oak wilt disease and its spread. Heaviest in lower Wisconsin and Minnesota and northern Iowa and Illinois, the disease has spread through Missouri and Arkansas and has been found in small areas in Nebraska and Indiana, Ohio and Pennsylvania. Hence the national oak wilt committee has been formed, and a report of its recent meeting at Memphis appears on another page of this issue.

Red oaks die quickly, said Dr. Kuntz, while white oaks, principally the bur oak, last several years. The cause of infection at a distance from older ones is not known. Local spread is thought to be by natural root grafts connecting one tree with its neighbor. By means of slides, Dr. Kuntz told just how these root systems interlock and how stain injected in one tree traveled through the root grafts to the cambium bark of a neighbor tree.

[Continued on page 58.]

#### HORTICULTURAL GROUPS WELCOME ILLINOIS HEAD.

Seventy-five persons, representing twenty-five local, state and national commercial and amateur horticultural groups were present by invitation at a banquet December 6 at the Stevens hotel, Chicago, to welcome C. J. Birkeland, who is serving his first year as head of the department of horticulture at the University of Illinois. A cocktail hour preceded the banquet, both of which were held in the hotel's attractive Tower room. In keeping with the occasion, the banquet tables were decorated in excellent taste with arrangements provided by Arthur Clemensen, who, with James Sykora, both of Chicago, were cochairmen for the affair. Mr. Sykora served as toastmaster, calling on all for self-introductions, except the head table guests, whom he introduced.

Brief talks, all pledging support for Dr. Birkeland and his department in its program for advancing horticulture at the University of Illinois and throughout the state were given. Miles Bryant, secretary, spoke on behalf of the Illinois State Nurserymen's Association. The honored guest of the evening, Dr. Birkeland, expressed his appreciation and offered assurance that the department would do all possible to deserve the confidence shown in it by the various horticultural groups. He also outlined recent progress within the department and contemplated plans, all calculated to benefit horticultural interests in the state.

A native of North Dakota, Dr. Birkeland attended North Dakota State College for two years and completed work for his bachelor's degree at Kansas State College in 1939. He received his master's degree from Kansas State College in 1941 and joined the staff of the University of Illinois in 1946, following four years of service as a lieutenant in the navy. He received his doctor's degree from the University of Illinois in 1949. In the navy, Dr. Birkeland served as post director operations officer at San Francisco, Calif., and on Okinawa.

Dr. Birkeland was appointed head of the department of horticulture at the University of Illinois college of agriculture effective September 1, 1950, following the approval of the board of trustees at its July meeting. The announcement of the appointment was made by Dean H. P. Rusk. Dr. Birkeland, who is 35 years old, married and the father of two children, has been acting head of the department since July, 1949.

# Reports Feature Nebraska Meeting

By Charles W. Andrews, Secretary

The annual meeting of the Nebraska Association of Nurserymen was held at the Cornhusker hotel, Lincoln, December 11 and 12, with President John Baumann, Beatrice, presiding.

The nominating committee made recommendations for officers for 1951, which were accepted, and the following were duly elected: President, Charles Hurlburt, Fairbury Nursery, Fairbury; vice-president, Howard Edmondson, Marshall Nurseries, Arlington, and secretary-treasurer, Charles W. Andrews, Marshall Nurseries, Omaha.

At the opening session, Vernon Marshall, Marshall Nurseries, Arlington, reported for the research committee, of which he is chairman. Glenn Viehmeyer, of the Nebraska agricultural experiment substation, North Platte, sent a written report on tests made there to date. He asked if he should do more testing of understocks for cherries, which the group favored. He mentioned the Sioux strawberry as a success, and some of the members agreed. Lloyd Moffet said he liked it better than Dunlap. Mr. Viehmeyer mentioned some promising new raspberries, grapes, a hybrid elm, a hardy ivy and chrysanthemums. The plan is to give these to nurserymen to test in their localities. A general discussion followed, and various nurserymen mentioned some varieties of trees and shrubs they considered desirable for Nebraska or that they thought should be tested. In the discussion about varieties of taxus, it was generally agreed that there were only a few varieties that should be used in this state and that they should be planted in places protected from the wind and sun and kept moist.

Later in the day, Dean W. V. Lambert, of the college of agriculture, University of Nebraska, Lincoln, talked about research. He said that the university was asking for funds to employ a state forester. A bill was enacted in the past session of the legislature for a state forester, but without an appropriation. In a discussion that followed, the consensus was that all members should do what they could to help obtain the funds. It also was decided that a committee from the association meet with a committee from the college to agree on varieties of nursery stock for different soils and areas within

the state, as well as culture and care suggestions. A few years ago such a meeting was held to agree on shade and ornamental trees, and a pamphlet listing them was published. It was agreed that more meetings of this kind would be beneficial.

Chet Marshall, Marshall Nurseries, Arlington, reported that the Nebraska Fair Association was willing to allow space for a demonstration rose garden to be planted by the association.

Gus Gritzmacher, Plumfield Nurseries, Fremont, reported for the public relations committee. He said the association has agreed to promote

the idea of having a landscape architect make plans for plantings on all state properties and of having a state plan for the licensing or certification of arborists or tree trimmers operating in the state. He said the members should promote these ideas with garden clubs and civic organizations before proposing definite legislation.

Harvey Williams, Williams Nurseries, Lincoln, reported for the uniform spray committee. The association has adopted formulas for homeowners' use, both for a spray and for a dust. Mr. Williams said that last spring the sulphur content in the formulas had been reduced, but no further changes were contemplated at this time.

Cornelius Speidell, Nebraska Nurseries, Lincoln, reported for the special committee about the lawsuit over the state's contention that a nursery firm's truck should not have a farm license, but should have a commercial license. Inasmuch as farmers may have farm licenses, the association claims this right for nurserymen. The trial is over, but the judge has not yet made his decision. The membership authorized the committee to appeal if an unfavorable verdict is rendered. The members authorized the formation of a permanent legislative committee. It also was agreed that nursery stock in the field should be considered for personal tax purposes the same as other farm crops.

Wayne Ferris, Hampton, president of the American Association of Nurserymen, had planned to attend this convention, but had to change his plans; so Vernon Marshall, Arlington, newly elected director for region 4, expressed Mr. Ferris' regrets and reported on the activities of the national organization. A request that the Nebraska Association of Nurserymen become a member of the Association of Nursery Association Secretaries, an organization affiliated with the A. A. N., was acted upon favorably.

The annual banquet was held in the evening. President Baumann asked Wayne Whitney, extension horticulturist, college of agriculture, University of Nebraska, Lincoln, to act as toastmaster. There were thirteen guests from the state department of agriculture, both from the college and the Statehouse. The

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CHARLES P. HURLBURT.

Advanced last month from the vice-presidency to the presidency of the Nebraska Association of Nurserymen, Charles P. Hurlburt operates, with his father, the Fairbury Nursery, at Fairbury, Neb. The nursery has been at its present location for fifty-three years, having been operated by his father and grandfather before him. Mr. Hurlburt worked at the nursery while in high school and college and then joined his father in the business upon his return from World War II in 1946. His grandfather died during the war. A general line of stock is offered at both wholesale and retail. Some of the business is mail order, but this is being decreased by the increase in parcel-post rates, and some is local landscaping.

Married and the father of a 5-year-old daughter, Mary Lou, Mr. Hurlburt is a native of Fairbury, where he was born thirty-two years ago. He attended high school there and graduated from the college of agriculture of the University of Nebraska in 1941. Three months later he was in the army, leaving it in 1946 with the rank of captain in the field artillery. He is a past commander of Fairbury Post 24 of the American Legion and at present is a city councilman for his home town.



# Bookkeeping for the Landscape Nursery

By Harold H. Clegg

The landscape nursery needs to keep books in a special way to reflect the actual position of the company. Some of the procedures which we use are unconventional and, where used, are justifiable because of the nature of the nursery business. The books are intended to serve both as bases for tax liability and insurance liability as well as to inform management of the trend of sales against inventory and overhead.

It seems convenient to keep tab of a moderate-size operation by using the cashbook and journal to show daily sales with a balancing of the books monthly. This monthly record is transferred at the close of each month to categories of debit and credit under keys or symbols in a general ledger. Our workmen's compensation insurance premium and reports to employees and governmental agencies on payroll are kept in a separate loose-leaf ledger, using a separate sheet for each employee. This sheet is printed to our order and shows social security number, mailing address of employee and the federal old age benefit and withholding tax deductions as made. Payroll is based on time cards carrying the signature of the employee, type and address of work done, hour work began and stopped on each operation. At the end of any convenient period, charges are made against each job on a job ticket, furnishing a basis for charging the customer; or if the time has been spent in the nursery, it furnishes a record of the time required to perform a nursery maintenance operation.

For twelve years we have used the same specially printed form, which we call a job ticket. At the top of the sheet is space for instructing the foreman as to the nature of the work to be done, along with the name and address of the customer. The remaining portion below on this side of the sheet consists of ruled columns for entry of the dates, names of employees working on the project and the number of hours transferred from their time cards for this job. On the reverse side of the same sheet are again ruled lines with columns for quantity and variety names of plant materials or supplies used on the project, along with grade or size, unit price and extension of price. The two bottom inches of this sheet

have space for job analysis; Total man-hours, cost of materials, charge for materials, charge for overhead, total price of the job. There are three lines reserved for remarks, where special instructions may be made to the foreman. The foreman enters the completed date and turns in this job ticket to the office along with the time cards for the day.

The bookkeeper enters the account receivable in her cashbook and journal from the carbon copy she keeps in an alphabetical ledger of customers. The bill is always made out by the salesman who consummated the contract with the customer. His job ticket analysis in preparing the customer's statement immediately shows how good his estimates have been, and the personnel responsible for pricing the price list obtain equally valuable information from job tickets, particularly where the price list, as in our case, carries the price planted of each plant material in our list, along with the price dug in a separate column, depending on quantity bought.

I believe that February is the only month in the year that a tax is not due and payable to some governmental agency. The withholding tax and federal old age benefits tax are due the month following each calendar quarter. Payroll is therefore summarized quarterly in the payroll ledger. Statements to employees can be lifted on demand quite readily. Bookkeeping is less of a chore, we have found, since we made our pay periods twice monthly as of the fifteenth and thirtieth prox. Once this transition has been made, there seems to be no hardship on the employee. The audit made by your agency carrying workmen's compensation insurance can readily be made from such records. Your estimated federal income tax can be based on the general ledger, since it will show the following:

Expenses: H-1 labor; H-2 advertising; H-3 postage; H-4 telephone; H-5 automobile and truck expense; H-6 taxes paid; H-7 freight and express; H-8 insurance; H-9 repairs; H-10 traveling expense; H-11 subcontract work; H-12 services; H-13 light, power, water; H-14 rent paid; H-15 miscellaneous.

A-1 checks on hand; A-2 cash in bank; A-3 petty cash; A-4 accounts receivable.

B-1 purchases, office supplies; B-2 purchases, merchandise; B-3 purchases, materials and supplies; B-4 inventory purchase.

C-1 equipment; E-1 depreciation reserve, equipment; F-1 capital investment; F-2 surplus.

G-1 sales; G-2 sales allowances; G-3 discounts earned; G-4 discounts allowed; G-5 losses and recoveries.

The items keyed under H are self-explanatory to nurserymen and take care of all contingencies in our own business. In filling out form 1040, United States individual income tax return, we enter under schedule G the items keyed H as explanation for line 6 schedule C. Our bookkeeping system has been categorized to transpose figures to form 1040 with the greatest clarity. Referring to form 1040, let me point out where bookkeeping needs the greatest attention. The merchandise bought for sale during the course of any year is principally plant materials. These readily show up in inventory taken at the end of the year. Inventory must be priced at cost or market. A conservative nursery will price its inventory at cost, because stock in the field is subject to the hazards of nature and losses are periodically experienced. Stock grown on leased land may be a total loss to the grower of nursery stock, and stock often grows beyond salable size in times of depression.

One of the really common bookkeeping errors of nurserymen is to inventory supplies such as fertilizers which are used up and are not merchandise in any sense of the word. Remember that inventory is merchandise only intended for resale. The depreciation reserve is an item ignored by small and medium-size or unincorporated landscape nurseries. The theory of depreciation needs to be understood much more clearly to be handled intelligently. One of the best examples, I believe, is the purchase of a truck, say for \$2,500. Depreciation is allowable as a deduction on line 17 schedule C in the federal income tax return. The estimated life of a depreciable item should determine the fair rate of depreciation. If the truck has an estimated hard usage of five years, your annual depreciation is twenty per cent per year; if the vehicle has an expected light usage, it is con-

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# Western Pennsylvania Meeting

By Louis E. Wissenback, Secretary

The Western Pennsylvania Nurserymen's Association held its annual meeting December 6, in the Webster Hall hotel's Georgian room, at Pittsburgh. Attendance was somewhat smaller than had been anticipated, no doubt because of the extreme weather that western Pennsylvania had experienced the past several weeks. However, some sixty members and friends enjoyed a full afternoon and evening program.

The meeting opened with a business session, with President Andrew Palombo presiding. The affairs of the association were in good order; the treasury showed about a twenty-five per cent increase. The membership had increased by six new members; total membership is now ninety members. Directors elected for 1951 were John M. Eisler, Andrew Palombo, Stanley W. Leonard, K. P. Sorgel, Lawrence Wilson, Roy Breidenbach and Louis E. Wissenback. Two proposed projects for 1951 were discussed, cooperative advertising in the local newspapers and exchange of credit information among the members. Both matters will have final action at the March meeting.

With the business matters taken care of, President Palombo turned the meeting over to Stanley Leonard, program chairman, who introduced the speakers.

E. J. Eudine, extension specialist in entomology, Pennsylvania State College, discussed Dutch elm disease. He traced the disease from the time it entered the United States, about 1930, up to this summer, when a few cases were found at Sewickley, just outside of Pittsburgh. Mr. Eudine described in detail the manner and methods in which this disease may be spread. European bark beetle is probably the most serious carrier of the disease. Early spring spraying is the most effective control, and sanitation the most important preventive. Prompt destruction of all diseased trees is a must. Keep trees healthy and vigorous, watch for any insects that might weaken them and you minimize the danger of infection. American, English, Scotch, rock and slippery elms are most susceptible. Chinese and Siberian elms are more resistant.

H. Burton Musser, professor of agronomy, Pennsylvania State College, spoke about "Crab Grass Con-

trol." Develop a turf management program over several years, he said. A well cared for lawn has less crab grass. Crab grass does not drive out good grass; it comes in only when



STANLEY W. LEONARD.

With the exception of one year, 1949, Stanley W. Leonard has served as a director of the Western Pennsylvania Nurserymen's Association since 1943, and he was reelected to another term at the association's meeting in December. He has served two terms as vice-president, in 1946 and 1950, and one term as president, in 1947. Also active in other nurserymen's associations, Mr. Leonard has been a delegate or alternate at four conventions of the American Association of Nurserymen, and he is also a member of the Pennsylvania Nurserymen's Association.

Since his father was a nurseryman at Piqua, O., Stanley Leonard was literally born to the business July 5, 1893, at Piqua. He remembers seeing the first shipments come from the Grootendorst Nurseries, Boskoop, Holland, when he was about 11 years old.

After graduating from Ohio State University in 1916, Mr. Leonard worked for Albert D. Taylor, landscape architect, Cleveland, O.; Farr Nursery Co., Weiser Park, Pa.; Hicks Nurseries, Westbury, N. Y. and William Pitkin, landscape architect, Flint, Mich. From 1920 to 1935 he was vice-president and treasurer of the Elliott Nursery Co., Pittsburgh, Pa. Since then he has been in business for himself at Pittsburgh, as Leonard & Leonard, landscape architect and landscape contractors. Testing ornamental plants for hardiness and resistance to the atmospheric conditions of Pittsburgh and designing new types of foundation plantings have been Mr. Leonard's specialties. Two brothers are also active in the trade. Parker W. operates Leonard's Nurseries, Piqua, O., and John M. operates A. M. Leonard & Son, nursery tools, also at Piqua.

Mr. Leonard and his wife, Mary, have two daughters, one of whom graduated from Ohio State University in 1944.

grass is weak. Crab grass control should be started in the fall. Use organic fertilizer in the fall; it will break down slowly, and the grass will become stronger in the summer. Cut lawns about one and one-half inches high, especially during crab grass germination, which is from about the middle of June to the end of August. Also keep grass on the dry side during the germination period and crab grass growth will be retarded. Raking up seed heads and mowing with a catcher attached is an effective control. Do not start raking too early or you may injure the permanent grass. In the Pittsburgh area, raking should start about the middle of August.

Chemical controls have proved successful, but must be combined with good turf management for lasting results. Follow the manufacturers' recommendations, Professor Musser admonished. Injury to permanent grass only gives crab grass more room to grow. Chemicals are more effective in seedling stage. One application will not control crab grass. Applications at intervals of five to twelve days, depending on material used and its strength, during the germination period have given the best control, but will not eliminate all the crab grass in one season.

George M. Hart, Conard-Pyle Co., West Grove, gave an illustrated talk on roses. He not only showed excellent slides, but also samples of understocks and mature plants. His word and picture story of the rose from seed to blooming plant in a customer's garden was expertly portrayed. Mr. Hart also discussed bed preparation, varieties and spraying.

NEWLY opened for business at Tampa, Fla., is Gene's Nursery, at 1321 East Hillsborough avenue.

DAUGHTER of E. N. Cory, Maryland's state entomologist, Lieut. Jean M. Cory, is an adjutant and assistant tactical officer to a squadron leader at the air force indoctrination base, San Antonio, Tex.

OPEN house was held Christmas eve by Mr. and Mrs. Otto E. Goetz, St. Louis, Mo., for their daughter, Marilyn Jean and her fiance, John Standfor Hobson, who plan to be married next summer. Mr. Goetz is owner of the O. E. Goetz Nursery at St. Louis.

# FOREST NURSERY CO., Inc.

McMINNVILLE, TENNESSEE

Day Phone 234

J. R. Boyd, President

Night Phone 17W

We are pleased to offer for immediate delivery (weather permitting) or for reservation for later shipment the following **Deciduous Shrubs** and **Shade Trees** in both **Finished** and **Lining-out** grades.

All items marked with an asterisk (\*) have slightly damaged tops caused by the recent freeze. However, they are in good condition for lining out. We will gladly send samples upon request.

## FRUIT TREES

### MULTIPLE APPLE

	Per 10	Per 100	Per 1000
Five-N-One.			
7/16 to 9/16-in. Caliper.....	\$7.00	\$65.00	.....
9/16 to 11/16-in. Caliper.....	8.00	75.00	.....
11/16-in. Caliper and up.....	9.00	85.00	.....

### CHERRY

#### SOUR—1-yr., Branched.

Varieties:

Montmorency			
Early Richmond			
7/16 to 9/16-in. Caliper.....	5.00	40.00	.....
9/16 to 11/16-in. Caliper.....	6.00	50.00	.....
11/16-in. Caliper and up.....	7.00	60.00	.....

## MISCELLANEOUS

### RHUBARB

	Per 10	Per 100	Per 1000
Victoria			
1/2 to 3/4-in.....	\$0.70	\$6.00	\$50.00
3/4 to 1-in.....	.80	7.00	60.00
1-in. and up.....	1.00	8.00	70.00

See our WANT LIST asking for Seeds and  
Hardwood Cuttings on Page 36.

## HARDY DECIDUOUS FLOWERING SHRUBS

S—Seedlings; C—Cuttings; Tr.—Transplants; Br.—Branched; L.O.—Lining-out; Div.—Divisions.

### ALMOND, *Prunus Glandulosa*.

Double, Pink-flowering Almond (own-root).

	Per 10	Per 100	Per 1000
L.O., 12 to 18 ins.....	\$2.00	\$12.00	\$110.00
12 to 18 ins., Tr., Well Br.....	2.50	20.00	180.00

### ALTHAEA, *Hibiscus Syriacus*. Shrub Althaea.

Varieties:

Amplissimus, Double Red.			
Ardens, Double Violet.			
Jeanne d'Arc, Double White.			
Rubis, Single Red.			
6 to 12 ins., C.....	.40	3.00	25.00
12 to 18 ins., C.....	.50	3.50	30.00
18 to 24 ins., C.....	.60	4.00	35.00
Rosea, Single Flowers, Mixed Colors.			
4 to 6 ins., S.....	.50	4.00	
6 to 12 ins., S.....	.80	7.00	
12 to 18 ins., S.....	1.25	10.00	
18 to 24 ins., S.....	1.50	12.00	
2 to 3 ft., S.....	2.00	15.00	
3 to 4 ft., S.....	3.00	25.00	

### BENZON AESTIVALE. Spicebush.

6 to 12 ins., S.....	.50	4.00	30.00
12 to 18 ins., S.....	.60	5.00	40.00
18 to 24 ins., S.....	.70	6.00	50.00

### BERBERIS THUNBERGI.

Green-leaved Barberry.

6 to 9 ins., S., 2-yr.....	.40	3.00	25.00
9 to 12 ins., S., 2-yr.....	.50	4.00	30.00
9 to 12 ins., S., 2-yr., Br.....	.60	5.00	40.00
12 to 15 ins., S., 2-yr., Br.....	.70	6.00	50.00
18 to 24 ins., S., 2-yr., Br.....	1.00	8.00	70.00

### CALYCANTHUS FLORIDUS. Sweet Shrub.

6 to 12 ins., S.....	.60	3.00	20.00
12 to 18 ins., S.....	.75	4.00	30.00
18 to 24 ins., S.....	1.00	5.00	40.00
2 to 3 ft., S.....	1.25	6.00	50.00
12 to 18 ins., 2-yr., S., Br.....	1.50	12.50	100.00
18 to 24 ins., 2-yr., S., Br.....	2.25	20.00	.....
2 to 3 ft., 2-yr., S., Br.....	3.00	25.00	.....

### CORNUS AMOMUM. Silky Dogwood.

6 to 12 ins., S.....	.30	2.50	20.00
12 to 18 ins., S.....	.40	3.00	25.00
18 to 24 ins., S.....	.50	4.00	35.00

### CORNUS STOLONIFERA. Red Osier Dogwood.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.....	\$0.20	\$ 1.25	\$ 10.00
12 to 18 ins., S.....	.30	2.00	15.00
18 to 24 ins., S.....	.40	3.00	20.00
2 to 3 ft., S.....	.50	4.00	25.00
12 to 18 ins., 2-yr., C., Br.....	1.25	9.00	.....
18 to 24 ins., 2-yr., C., Br.....	1.50	12.00	.....
2 to 3 ft., 2-yr., C., Br.....	2.00	15.00	.....

### CORYLUS AMERICANA. American Filbert.

6 to 12 ins., S.....	.60	5.00	45.00
12 to 18 ins., S.....	.70	6.00	55.00
18 to 24 ins., S.....	.90	8.00	70.00
12 to 18 ins., 3-yr., Br.....	1.25	10.00	90.00
18 to 24 ins., 2-yr., Br.....	2.00	17.50	150.00
2 to 3 ft., 3-yr., Br.....	3.00	25.00	225.00

### CYDONIA JAPONICA. Japanese Quince.

6 to 12 ins., S.....	.40	3.00	25.00
12 to 18 ins., S.....	.50	4.00	35.00
18 to 24 ins., S.....	.60	5.00	45.00
12 to 18 ins., 3-yr., S., Well Br.....	.75	6.50	60.00
18 to 24 ins., 3-yr., S., Well Br.....	1.50	12.50	100.00
2 to 3 ft., 3-yr., S., Well Br.....	2.50	20.00	175.00

### CYDONIA JAPONICA RUBRA.

Japanese Quince.

True upright red, nonfruiting.			
4 to 6 ins., C., L.O.....	.80	7.00	60.00
6 to 12 ins., C., L.O.....	1.00	8.00	75.00
12 to 18 ins., C., L.O.....	1.75	15.00	120.00
12 to 18 ins., 2-yr., Well Br.....	3.00	25.00	200.00
3 to 4 ft., 3-yr., Well Br.....	6.00	50.00	.....

### DEUTZIA SCABRA.

Varieties: Candida, Dbl. White;

Crenata, Double Pink;

Pride of Rochester, Double Red.

12 to 18 ins., C.....	.40	3.50	30.00
18 to 24 ins., C.....	.50	4.00	35.00
12 to 18 ins., Well Br.....	.70	6.00	50.00
18 to 24 ins., Well Br.....	1.25	10.00	80.00
2 to 3 ft., Well Br.....	1.50	12.00	100.00
3 to 4 ft., Well Br.....	2.00	15.00	125.00

## WHOLESALE PRICE LIST—FOREST NURSERY CO.

## HARDY DECIDUOUS FLOWERING SHRUBS—Continued

- \*FORSYTHIA FORTUNEI. Fortune Forsythia.  
 \*FORSYTHIA INTERMEDIA. Border Forsythia.  
 \*FORSYTHIA SPECTABILIS.  
 \*FORSYTHIA SIEBOLDI.  
 \*FORSYTHIA VIRIDISSIMA.  
 Greenstem Forsythia.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.	\$0.30	\$ 2.50	\$ 20.00
12 to 18 ins., C.	.35	3.00	25.00
18 to 24 ins., C.	.40	3.50	30.00
2 to 3 ft., C.	.60	5.00	40.00

## LIGUSTRUM AMURENSE.

Amur River North Privet.

## LIGUSTRUM IBOLIUM. Ibolium Privet.

L.O., Field-grown, 1 and 2 canes.	.30	2.00	17.50
6 to 12 ins., 2 Br. up.	.40	3.00	25.00
12 to 18 ins., 2 Br.	.50	4.00	35.00
12 to 18 ins., 3 Br. up.	.60	5.00	45.00
18 to 24 ins., 2 Br.	.60	5.00	45.00

## LIGUSTRUM OBTUSIFOLIUM. Ibolta Privet.

12 to 18 ins., Tr., 3 Br.	.60	5.00	...
18 to 24 ins., Tr., 3 Br. up.	.80	7.00	...
2 to 3 ft., Tr., 4 Br. up.	1.25	10.00	...

## \*LIGUSTRUM OVALIFOLIUM.

California Privet.

L.O., Field-grown	.25	1.50	12.50
6 to 12 ins., 2 Br. up.	.30	2.00	15.00
12 to 18 ins., 2 Br., 2-yr.	.35	3.00	25.00
12 to 18 ins., 3 Br. up, 2-yr.	.45	3.50	30.00
18 to 24 ins., 2 Br., 2-yr.	.45	3.50	30.00

## \*LIGUSTRUM SINENSE.

Amur River South Privet.

4 to 6 ins., S.	.60	3.50	...
6 to 12 ins., S.	.80	5.00	...
12 to 18 ins., S.	1.00	6.00	...
18 to 24 ins., S.	1.25	8.00	...
2 to 3 ft., S.	2.00	18.00	...
18 to 24 ins., Tr., Well Br.	.60	5.00	45.00
2 to 3 ft., Tr., Well Br.	.80	7.00	60.00
3 to 4 ft., Tr., Well Br.	1.00	9.00	80.00
4 to 5 ft., Tr., Well Br.	1.50	12.00	...

(5% Discount on above Seedlings in 10,000 lots. 10% Discount on above Seedlings in 20,000 lots. Discount does not apply on Transplants.)

- LONICERA MORROWI. Morrow's Honeysuckle.  
 LONICERA TATARICA. Tatarian Honeysuckle.

Varieties of Tatarian: Alba, White;

Rosea, Pink; Rubra, Red.

	Per 10	Per 100	Per 1000
4 to 6 ins., C., L.O.	\$ 3.50	\$ 30.00	...
6 to 12 ins., C., L.O.	4.00	35.00	...
12 to 18 ins., C., L.O.	4.50	40.00	...
18 to 24 ins., C., L.O.	5.00	45.00	...

## PHILADELPHUS CORONARIUS.

Sweet Mock Orange.

6 to 12 ins., 1-yr., C.	\$0.40	3.50	30.00
12 to 18 ins., 1-yr., C.	.50	4.00	35.00
18 to 24 ins., 1-yr., C.	.60	5.00	45.00
12 to 18 ins., 2-yr., Well Br.	1.00	8.00	...

## RHUS COPALLINA. Shining Sumac.

## RHUS GLABRA. Smooth Sumac.

## RHUS TYPHINA. Staghorn Sumac.

6 to 12 ins., S.	1.00	8.00	...
12 to 18 ins., S.	.15	1.25	10.00
18 to 24 ins., S.	.20	1.50	12.00
2 to 3 ft., S.	.30	2.00	15.00

## ROBINIA HISPIDA. Rose Acacia.

12 to 18 ins., L.O.	.35	2.50	20.00
18 to 24 ins., L.O.	.40	3.00	25.00
2 to 3 ft., L.O.	.50	4.00	35.00

## SPIRAEA CALLOSA ROSEA.

Pink Fortune Spiraea.

6 to 12 ins., S.	3.00	25.00	...
12 to 18 ins., S.	3.50	30.00	...
18 to 24 ins., S.	4.00	35.00	...

## SPIRAEA PRUNIFOLIA. Bridal Wreath.

12 to 18 ins., L.O.	.70	6.00	50.00
18 to 30 ins., Div., L.O.	.80	7.00	60.00
12 to 18 ins., 1-yr., Tr., field-grown, L.O.	1.25	10.00	80.00
18 to 24 ins., 1-yr., Tr., field-grown, L.O.	1.50	12.50	100.00
12 to 18 ins., 2-yr., Well Br.	2.00	15.00	125.00
18 to 24 ins., 2-yr., Well Br.	2.50	20.00	175.00
2 to 3 ft., 2-yr., Well Br.	3.00	25.00	200.00
3 to 4 ft., 2-yr., Well Br.	3.50	25.00	...

## SYMPHORICARPOS VULGARIS. Coralberry.

6 to 12 ins., 1-yr., C.	2.00	12.50	...
12 to 18 ins., 1-yr., C.	2.50	15.00	...
18 to 24 ins., 1-yr., C.	3.50	25.00	...
12 to 18 ins., 1-yr., Well Br.	.60	5.00	40.00
18 to 24 ins., 1-yr., Well Br.	.75	6.00	50.00

## FOREST and SHADE TREES

## ACER DASYCARPUM. Silver Maple. Per 10 Per 100 Per 1000

6 to 12 ins., S.	\$ 1.25	\$10.00	...
12 to 18 ins., S.	\$ 0.20	1.50	12.00
18 to 24 ins., S.	.30	2.00	15.00
5 to 6 ft., Tr.	6.00	50.00	...
6 to 8 ft., Tr.	8.50	75.00	...

## ACER NEGUNDO. Box Elder.

6 to 12 ins., S.	.20	1.50	12.00
12 to 18 ins., S.	.25	2.00	15.00
18 to 24 ins., S.	.35	2.50	20.00
2 to 3 ft., S.	.45	3.50	30.00
3 to 4 ft., S.	.55	5.00	45.00
4 to 5 ft., S.	.75	7.00	60.00
5 to 6 ft., S.	1.00	9.00	80.00

## ACER RUBRUM. Scarlet Maple.

## ACER SACCHARUM. Sugar or Hard Maple.

4 to 6 ins., S.	1.25	10.00	...
6 to 12 ins., S.	.30	2.00	15.00
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.45	3.00	25.00

## AESCULUS OCTANDRA. Yellow Buckeye.

6 to 12 ins., S.	.50	4.00	35.00
12 to 18 ins., S.	.70	6.00	50.00
18 to 24 ins., S.	.80	7.00	60.00
2 to 3 ft., S.	1.25	10.00	...

## ALBIZZIA JULIBRISSIN. Mimosa Tree.

6 to 12 ins.	.50	3.00	20.00
12 to 18 ins.	.60	3.50	30.00
18 to 24 ins.	.75	5.00	40.00
2 to 3 ft.	1.00	8.00	60.00
3 to 4 ft.	3.00	20.00	...
4 to 5 ft.	4.50	35.00	...
5 to 6 ft.	6.00	50.00	...
6 to 8 ft.	10.00	90.00	...
8 to 10 ft.	15.00	125.00	...

(Less 10 per cent in 5000 lots.)

## CASTANEA MOLLISSIMA. Chinese Chestnut.

(This is the true blight-resistant Chinese Chestnut from an orchard of selected strain.)

	Per 10	Per 100	Per 1000
18 to 24 ins., 2-yr., S.	\$ 3.50	\$ 30.00	\$250.00
2 to 3 ft., 2-yr., S.	6.00	55.00	500.00
3 to 4 ft., 2-yr., S., Well Br.	8.00	75.00	...
4 to 5 ft., 2-yr., S., Well Br.	12.50	100.00	...
5 to 6 ft., 2-yr., S., Well Br.	15.00	125.00	...

## CERCIS CANADENSIS. American Redbud.

4 to 6 ins., S.	1.50	10.00	...
6 to 12 ins., S.	.25	2.00	15.00
12 to 18 ins., S.	.30	2.50	20.00
18 to 24 ins., S.	.45	3.50	30.00
2 to 3 ft., S.	.60	5.00	45.00
3 to 4 ft., S.	1.25	10.00	90.00
3 to 4 ft., Tr., Br.	4.00	35.00	...
4 to 5 ft., Tr., Br.	6.00	50.00	...
5 to 6 ft., Tr., Br.	8.50	75.00	...
6 to 8 ft., Tr., Br.	10.00	90.00	...
8 to 10 ft., Tr., Br.	15.00	125.00	...

## CORNUS FLORIDA. White Dogwood.

6 to 12 ins., S.	.50	3.50	25.00
12 to 18 ins., S.	.60	4.50	35.00
18 to 24 ins., S.	.80	7.00	60.00
2 to 3 ft., S.	1.50	12.50	100.00
3 to 4 ft., S.	2.50	20.00	150.00
2 to 3 ft., 2-yr., Well Br.	6.00	50.00	...
3 to 4 ft., 2-yr., Well Br.	10.00	80.00	...
4 to 5 ft., 2-yr., Well Br.	15.00	125.00	...
5 to 6 ft., 2-yr., Well Br.	17.50	150.00	...
4 to 5 ft., 2-yr., Well Br., B&B.	20.00	175.00	...
5 to 6 ft., 2-yr., Well Br., B&B.	22.50	200.00	...

See following page for more Forest and Shade Trees and Vines and Creepers.



## WHOLESALE PRICE LIST—FOREST NURSERY CO.

## FOREST AND SHADE TREES—Continued

## CORNUS FLORIDA RUBRA. Pink Dogwood.

	Per 10	Per 100	Per 1000
18 to 24 ins.	\$10.00	\$ 90.00	\$800.00
2 to 3 ft.	15.00	125.00	1150.00
3 to 4 ft.	22.50	200.00	....
18 to 24 ins., B&B.	12.50	105.00	950.00
2 to 3 ft., B&B.	17.50	150.00	....
3 to 4 ft., B&B.	27.50	250.00	....

## DIOSPYROS VIRGINIANA. American Persimmon.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.25	1.50	12.50
12 to 18 ins., S.	.35	2.50	20.00
18 to 24 ins., S.	.40	3.50	25.00
2 to 3 ft., S.	.50	4.50	30.00
3 to 4 ft., S.	.65	6.00	40.00
4 to 5 ft., S.	.75	7.00	50.00

## FAGUS AMERICANA. American Beech.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	....	1.25	10.00
6 to 12 ins., S.	.25	1.50	12.50
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00

## FRAXINUS AMERICANA. White Ash.

## FRAXINUS LANCEOLATA. Green Ash.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	....	1.00	8.00
12 to 18 ins., S.	.25	1.50	12.50
18 to 24 ins., S.	.30	2.50	20.00
2 to 3 ft., S.	.40	3.00	25.00
3 to 4 ft., S.	.60	5.00	40.00

## GYMNOCLADUS DIOICUS. Kentucky Coffee Tree.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	1.50	10.00	90.00
12 to 18 ins., S.	2.00	15.00	125.00
18 to 24 ins., S.	2.50	20.00	175.00
2 to 3 ft., S.	4.00	30.00	250.00
3 to 4 ft., S.	5.00	40.00	....
4 to 5 ft., S.	6.00	50.00	....

## HICORIA LACINIOSA. Shellbark Hickory.

## HICORIA OVATA. Shagbark Hickory.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	.60	5.00	40.00
6 to 12 ins., S.	.80	6.00	50.00
12 to 18 ins., S.	1.50	10.00	80.00
3 to 4 ft., S.	12.50	100.00	....
4 to 5 ft., S.	15.00	125.00	....
5 to 6 ft., S.	20.00	175.00	....
6 to 8 ft., S.	25.00	225.00	....

## JUGLANS NIGRA. Black Walnut.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.35	2.50	20.00
12 to 18 ins., S.	.50	3.50	25.00
18 to 24 ins., S.	.60	5.00	35.00
2 to 3 ft., S.	.80	7.00	50.00
3 to 4 ft., S.	2.50	15.00	85.00
4 to 5 ft., S.	3.50	25.00	150.00
5 to 6 ft., S.	4.50	35.00	250.00
6 to 8 ft., S.	7.00	50.00	....

## LIRIODENDRON TULIPIFERA. Tulip Tree.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	....	1.00	8.00
6 to 12 ins., S.	.20	1.25	10.00
12 to 18 ins., S.	.25	1.50	12.00
18 to 24 ins., S.	.30	2.00	17.50
2 to 3 ft., S.	.35	2.50	20.00
3 to 4 ft., S.	.50	4.00	35.00
3 to 4 ft., Tr.	4.00	35.00	250.00
4 to 5 ft., Tr.	6.00	50.00	400.00
5 to 6 ft., Tr.	7.00	60.00	500.00
6 to 8 ft., Tr.	10.00	75.00	600.00
8 to 10 ft., Tr.	12.50	100.00	900.00

## MALUS ELEYI. Flowering Crab.

	Per 10	Per 100	Per 1000
4 to 5 ft., 2-yr. Grafts.	\$ 6.00	\$ 50.00	....
5 to 6 ft., 2-yr. Grafts.	7.00	60.00	....
12 to 18 ins., 1-yr. Grafts.	2.50	20.00	....
18 to 24 ins., 1-yr. Grafts.	3.00	25.00	....
2 to 3 ft., 1-yr. Grafts.	3.50	30.00	....

## MALUS HOPA. Hopa Crab.

	Per 10	Per 100	Per 1000
4 to 5 ft., Well Br., 2-yr. Grafts.	6.00	50.00	....
5 to 6 ft., Well Br., 2-yr. Grafts.	7.00	60.00	....

## MORUS ALBA TATARICA. Russian Mulberry.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	.20	1.50	\$ 10.00
12 to 18 ins., S.	.30	2.00	15.00
18 to 24 ins., S.	.40	2.50	20.00

## POPULUS NIGRA ITALICA. Lombardy Poplar.

	Per 10	Per 100	Per 1000
6 to 12 ins., C.	.20	1.50	12.00
12 to 18 ins., C.	.30	2.00	17.50
18 to 24 ins., C.	.40	3.00	25.00
2 to 3 ft., C.	.60	5.00	40.00
3 to 4 ft., C.	.70	6.00	50.00
4 to 5 ft., C.	1.00	8.00	70.00
5 to 6 ft., C.	1.25	10.00	90.00

(Less 10 per cent discount in 5000 lots.)

## ROBINIA PSEUDOACACIA. Black Locust.

	Per 10	Per 100	Per 1000
4 to 6 ins., S.	....	.50	4.00
6 to 12 ins., S.	....	.75	6.00
12 to 18 ins., S.	....	1.25	10.00
18 to 24 ins., S.	.25	1.50	12.50
2 to 3 ft., S.	.30	2.50	15.00
3 to 4 ft., S.	.50	3.50	25.00
4 to 5 ft., S., Br.	2.00	15.00	125.00
5 to 6 ft., S., Br.	4.00	30.00	250.00
6 to 8 ft., S., Br.	6.00	50.00	400.00

(Less 10 per cent Discount in 5000 lots.)

## ULMUS PUMILA. Chinese Elm.

	Per 10	Per 100	Per 1000
6 to 12 ins., S.	....	1.00	8.00
12 to 18 ins., S.	....	1.50	12.50
18 to 24 ins., S.	....	2.00	18.00

## VINES and CREEPERS

## ARISTOLOCHIA TOMENTOSA.

	Per 10	Per 100	Per 1000
Dutchman's-pipe Vine.			
1-yr. S., No. 1.	\$0.35	\$ 2.50	\$ 20.00
1-yr. S., No. 2.	.30	2.00	15.00

## BIGNONIA RADICANS. Trumpet Creeper.

	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr. S.	.30	2.00	15.00
12 to 18 ins., 1-yr. S.	.40	3.00	25.00

## KUDZU VINE.

	Per 10	Per 100	Per 1000
No. 1 Crowns, 2 and 3-yr.	....	5.00	35.00

## LONICERA JAPONICA HALLIANA.

## Hall's Japanese Honeysuckle.

	Per 10	Per 100	Per 1000
Small, Lining-out	....	.90	7.00
Medium, Lining-out	....	1.25	10.00
2-yr. Tr., No. 1.	.90	7.00	65.00
2-yr. Tr., No. 2.	.70	6.00	55.00
2-yr. Tr., No. 3.	.60	5.00	40.00
1-yr. Tr., No. 1.	.70	6.00	50.00
3-yr. Tr., No. 1, heavy.	1.25	10.00	80.00

## VINCA MINOR. Common Periwinkle.

	Per 10	Per 100	Per 1000
Medium, Lining-out (Small)	.15	1.00	7.00
Medium, Lining-out	.20	1.25	10.00

## VINCA MINOR. Common Periwinkle.

## 2 1/4-in. Pot Plants.

	Per 10	Per 100	Per 1000
2 1/4-in. Pot Plants.	2.00	17.50	150.00

## WISTARIA FRUTESCENS. American Wistaria.

## WISTARIA SINENSE. Blue Chinese Wistaria.

	Per 10	Per 100	Per 1000
1-yr. S., No. 2.	.80	6.00	....
1-yr. S., No. 1.	1.00	8.00	....
Grafting Grade, 1/4-in. and up.	....	10.00	....
18 to 24 ins., 2-yr. S.	2.00	15.00	....
2 to 3 ft., 2-yr. S.	2.50	20.00	....

See preceding pages for Hardy Deciduous Shrubs and more Forest and Shade Trees.

If you are in need of varieties or grades not listed above write, phone or wire for attractive quotations.

Better still, contact either J. R. Boyd or John Boyd at one of the following conventions: The Missouri State Nurserymen's Association and Western Nurserymen's Association, St. Louis; The Iowa Nurserymen's Association, Des Moines; The Illinois State Nurserymen's Association, Chicago, or The Ohio Nurserymen's Association, Columbus.



# Plant Notes Here and There

By C. W. Wood

A friend of this column who is making a collection of sages asks for something on two kinds, *Salvia argentea* and *S. hians*, which he grew from seeds this year. I have to go back into ancient history, about thirty years at least, to find them mentioned in my notebooks and then find only the little that follows:

*Salvia argentea*, judged by its rosette of large, soft, silvered leaves, is a beautiful ornament for a sunny, perfectly drained border; judged by its pinkish flowers, it is of little ornamental value. When it was on trial here in northern Michigan, we took out the flower stems after they were one or two feet tall. That not only preserved the decorative value of the lovely foliage, but added to the plant's life span, because *S. argentea* usually dies after seed bearing. A native of southern Europe, it was not reliably hardy here. It would probably need a protected spot as far south as the latitude of Chicago and certainly would need a well drained soil wherever grown.

The following note on *S. hians* is addressed to all readers who operate south of the Ohio, as well as to the inquirer. When you see it offered in seeds, it might pay you to try at least a packet. I see it occasionally in European lists. My interest in the plant was aroused some thirty years ago when I read, in an English horticultural magazine, a note from the late William Robinson wherein he gave it the high praise of calling it one of the best border sages. Seeds were not much easier to find then than they are now, a condition that is hard to explain, but I have had *S. hians* temporarily (perhaps because of tenderness to cold) several times during the intervening years, always with joy in its pretty blue flowers with white lower lip, in whorls of six, on plants to eighteen inches in height. It is easily grown and probably would be permanent where hardy.

## Antirrhinum Asarina.

I visited a garden last summer where a dry retaining wall, facing west, was an interesting feature. I was especially interested in the plants which had been used to clothe the wall, because illness in the family had caused neglect for two years to show up the slackers and put the spotlight on the willing doers. I shall not dwell

now upon all the things noted during my visit, but I would like to say a few words about the Spanish snapdragon, *Antirrhinum asarina*.

Because it has never been reliably hardy here in my plantings, I was surprised to find it apparently entirely so in this garden seventy miles farther north. The explanation, I suspect, lies in the fact that it had been planted where it would normally be covered with at least two feet of snow all through the winter. Anyway, it had been there for years, self-sowing conservatively in the crevices below. But the thing that impressed me most was the way it had stood up during two summers of heat and drought, during which even some pinks had succumbed. I noticed, too, that sempervivums, which would brighten up with the coming of cool, moist fall weather, were then shrivelled up in the dry heat, but the Spanish snapdragon was smiling through it all, its trailing stems covered with woolly leaves and ivory-white, pink-nosed snapdragons. When it is said that flowering prob-

ably extended from spring until fall, that will tell you that here is a plant which will bear investigation to see if it will stand your winter climate.

## Valerian.

Any plant that has been in gardens for long is sure to have accumulated much lore. That is certainly true of valeriana, the garden heliotrope of moderns. It seems to have been a favorite herb of the ancient Egyptians, the Greeks and the Romans. It was, in fact, an ingredient of Mithradates' antidote, famous among the early herbalists. It evidently reached Germany, France and England in the ninth century, being known among the herbalists of the ninth century as *setuale* and later as *setwall*. In the *Grete Herball*, published in 1597, Gerard had this to say of its "vertues": "The dry root is put into counterpoisons and medicines preservative against the pestilence, as are treacles, mithridates and such like; whereupon it hath been had (and is to this day among the poore people of our northerne

## LINING-OUT STOCK

SPRING, 1951

T—Once Transplanted  
TT—Twice Transplanted  
TTT—Thrice Transplanted

TT—Twice Transplanted  
FR—Field Row

		Per 100	Per 1000
30,000	<i>Althaea</i> , 1-yr. Sdgs.	\$ 3.50	\$ 27.50
2500	<i>Buxus Newport Blue</i> , 3-yr., TT, FR.	35.00	300.00
7500	<i>Cornus Kousa</i> , 2-yr., T, FR.	20.00	150.00
1500	<i>Cornus Kousa</i> , 3-yr., T, FR.	35.00	300.00
15,000	<i>Cydonia Japonica</i> , 1-yr., Sdgs.	3.50	27.50
3500	<i>Cydonia Japonica</i> , 2-yr., T, FR.	8.50	75.00
525	<i>Euonymus Radicans Carrierei</i> , 2-yr., TT, FR.	35.00	300.00
6000	<i>Leucothoe Catesbaei</i> , 2-yr., T.	20.00	150.00
3000	<i>Picea Canadensis Alba</i> , 3-yr., TT, FR.	25.00	200.00
25,000	<i>Pieris Japonica</i> , 1-yr., T.	8.50	75.00
15,000	<i>Pieris Japonica</i> , 3-yr., TT.	30.00	250.00
15,000	<i>Pieris Japonica</i> , 5-yr., TTT, FR.	50.00	450.00
2000	<i>Pinus Mughus</i> , 4-yr., T, FR.	30.00	250.00
75,000	<i>Rosa Multiflora Japonica</i> , 1-yr. Sdgs., 2 to 3 mm.	2.50	15.00
150,000	<i>Rosa Multiflora Japonica</i> , 1-yr. Sdgs., 3 to 6 mm.	3.50	25.00
6500	<i>Taxus Cuspidata</i> , 4-yr., TT, FR.	45.00	400.00
2500	<i>Taxus Cuspidata Nana</i> (Brevifolia), 2-yr., T.	30.00	250.00
3500	<i>Taxus Media Hatfieldi</i> , 2-yr., T.	30.00	250.00
5000	<i>Taxus Media Hatfieldi</i> , 4-yr., TT, FR.	45.00	400.00
4000	<i>Taxus Media Hatfieldi</i> , 5-yr., TT, FR.	70.00	600.00
2500	<i>Taxus Media Hicksi</i> , 2-yr., T.	30.00	250.00
4000	<i>Taxus Media Hicksi</i> , 4-yr., TT, FR.	45.00	400.00
4000	<i>Taxus Media Hicksi</i> , 5-yr., TT, FR.	70.00	600.00
2000	<i>Thuja Occidentalis Nigra</i> , 3-yr., TT, FR.	40.00	350.00
2000	<i>Thuja Occidentalis Pyramidalis</i> , 2-yr. grafts, FR.	70.00	600.00
5000	<i>Thuja Orientalis Aurea Nana</i> (Biota), 2-yr. grafts, FR.	60.00	500.00
25,000	<i>Wistaria Sinensis</i> , 1-yr. Sdgs.	3.50	27.50

Samples mailed on request.

BOULEVARD NURSERIES

NEWPORT, RHODE ISLAND

# EVERGREEN LINING-OUT STOCK

	100 rate	1000 rate		100 rate	1000 rate
	each	each		each	each
10,000 Abies balsamea, 2-yr., S. 1 1/2 to 2 1/4 ins.	\$0.05	\$0.04	500 Taxus baccata fastigiata, 2-yr., T. 5 to 10 ins.	\$0.35	\$0.35
10,000 Abies balsamea, 3-yr., S. 2 to 3 ins.	.06	.05	100 baccata repandens, TT. 10 to 12 ins.	.45	.45
500 Abies balsamea, 4-yr., T. 3 to 5 ins.	.08	.07	100 baccata repandens, 2-yr., T. .	.30	.30
5000 Abies fraseri, 2-yr., S. 1 1/2 to 3 ins.	.06	.05	1150 cuspidata, 1-yr., T. .	.18	.17
5000 Abies fraseri, 3-yr., S. 2 to 4 ins.	.07	.06	2000 cuspidata, 2-yr., T. 8 to 12 ins.	.25	.24
4000 Abies fraseri, 4-yr., T. 3 to 6 ins.	.12	.10	2000 cuspidata, 3-yr., T. .	.30	.30
1000 Buxus Newport Blue, 3-yr., TT. .	.35	.30	1000 cuspidata andersoni, 2-yr., T. 6 to 10 ins.	.30	.30
300 Chamacyparis obtusa gracilis, pot grafts.	.35	.35	1500 cuspidata browni, 2-yr., T. .	.30	.30
200 Chamacyparis obtusa gracilis, 2-yr. grafts	.60	.50	80 cuspidata browni, TT. 15 to 18 ins.	.85	.85
1000 Chamacyparis plumosa, 1-yr., T. .	.15	.14	200 cuspidata capitata, sdig., TT. 12 to 15 ins.	1.60	1.60
1000 Chamacyparis plumosa, 2-yr., T. 6 to 10 ins.	.20	.19	100 cuspidata capitata, sdig., TT. 15 to 18 ins.	1.75	1.75
250 Chamacyparis plumosa, 3-yr., T. 8 to 15 ins.	.30	.25	1500 cuspidata capitata, sdig., 4-yr., TT. 10 to 12 ins.	.50	.45
1000 Chamacyparis plumosa aurea, 2 1/4-in. pots.	.22 1/2	.20	500 cuspidata columnaris, 3-yr., T. 5 to 10 ins.	.30	.30
1000 Juniperus chinensis hetzi, 2 1/4-in. pots.	.20	.20	100 cuspidata columnaris, TT. 15 to 18 ins.	.75	.75
500 chinensis columnaris glauca, pot grafts.	.45	.45	1200 cuspidata compacta, 2-yr., T. 8 to 12 ins.	.30	.30
500 chinensis ketelerii, pot grafts.	.45	.45	1000 cuspidata nana, 1-yr., T. .	.18	.18
500 chin. pfitzeriana, 2 1/4-in. pots. 8 to 10 ins.	.30	.27 1/2	2000 cuspidata nana, 2-yr., T. .	.30	.30
1500 depressa plumosa, 2 1/4-in. pots. 6 to 8 ins.	.25	.25	2000 cuspidata nana, 3-yr., TT. 6 to 10 ins.	.45	.40
500 depressa plumosa, 2-yr., T. 6 to 8 ins.	.25	.25	1500 cuspidata nana erecta, 2-yr., T. 6 to 10 ins.	.30	.30
1000 excelsa stricta, 2 1/4-in. pots. 6 to 8 ins.	.17 1/2	.15	2000 cuspidata stovckeni, 2-yr., T. 6 to 10 ins.	.30	.30
200 horizontalis douglasii, 2-yr., T. 6 to 8 ins.	.35	.35	1000 cuspidata thayerae, 2-yr., T. 6 to 10 ins.	.30	.30
200 hor. glauca hetzi, 1-yr., T. .	.25	.25	2000 cuspidata thayerae, 4-yr., TT. .	.50	.45
1000 sabina, 2 1/4-in. pots. 6 to 8 ins.	.17 1/2	.15	1000 hunnewelliana, 2-yr., T. .	.30	.30
250 sabina, 2-yr., T. 4 to 8 ins.	.20	.20	2000 interne media (spreading), 2-yr., T. .	.30	.30
1000 suecica, TT. 12 to 15 ins.	.45	.45	500 media (spreading), TT. 10 to 12 ins.	.18	.17
500 virginiana, 1-yr., S. .	.03	.02 1/2	2000 media Halloran Strain, 2-yr., T. 6 to 10 ins.	.30	.30
500 virginiana canari, pot grafts.	.45	.45	1000 media Halloran Strain, TT. 12 to 15 ins.	1.00	1.00
500 Hex crenata, 1-yr., T. .	.20	.20	2000 media hatfieldi, 2-yr., T. 8 to 10 ins.	.30	.30
500 Hex crenata convexa, 1-yr., T. 4 to 6 ins.	.20	.20	1500 media hatfieldi, 3-yr., T. 8 to 10 ins.	.35	.30
500 Hex glabra, 2-yr., T. 6 to 8 ins.	.25	.25	1000 media hatfieldi, 4-yr., TT. 8 to 12 ins.	.40	.40
2000 Leucothoe catesbaei, 2-yr., T. .	.20	.15	1000 media hatfieldi, 5-yr., TT. .	.50	.50
4000 Picea canadensis alba, 4-yr., T. 4 to 9 ins.	.12	.10	2500 media hicksii, 2-yr., T. 8 to 10 ins.	.30	.30
1000 Picea canadensis alba, TT. 8 to 10 ins.	.25	.20	500 media hicksii, 3-yr., T. .	.35	.30
1000 Picea excelsa, T. 4 to 6 ins.	.10	.09	1000 media hicksii, 4-yr., TT. 10 to 12 ins.	.40	.35
100 Picea excelsa, TT. 12 to 18 ins.	.45	.45	100 media hicksii, 5-yr., TT. 12 to 15 ins.	.75	.75
1000 Picea moerhousii, pot grafts.	1.00	1.00	2000 Thuja occidentalis, 3-yr., T. 3 to 8 ins.	.10	.10
200 Picea omorika, 2-yr., S. .	.15	.15	1000 occ. boothii, 1-yr., T. .	.15	.15
5000 Picea pungens, 3-yr., S. 2 to 5 ins.	.07	.06	1000 occ. boothii, 2-yr., T. 4 to 8 ins.	.30	.30
3000 Picea pungens, 3-yr., T. 2 to 5 ins.	.10	.09	1000 occ. boothii, TT. 12 to 15 ins.	.50	.50
300 Picea pungens kosteri, pot grafts.	1.00	1.00	1000 occ. compacta, 2-yr., T. 4 to 6 ins.	.25	.25
1000 Pteris japonica, 2-yr., T. .	.25	.22 1/2	600 occ. compacta, 3-yr., T. 5 to 9 ins.	.30	.30
1000 Pteris japonica, 3-yr., T. .	.35	.32 1/2	1000 occ. douglasii (spiralis), 2-yr., T. 8 to 12 ins.	.30	.30
1000 Pteris japonica, TT. .	.45	.40	500 occ. douglasii aurea, 2-yr., T. 8 to 10 ins.	.30	.30
3000 Pinus banksiana, 3-yr., S. 6 to 15 ins.	.04	.03	500 occ. elegantissima, TT. 10 to 12 ins.	.45	.40
1000 banksiana, 3-yr., T. 8 to 16 ins.	.05	.04	1000 occ. globosa, TT. 8 to 10 ins.	.25	.25
15,000 densiflora, 2-yr., S. 4 to 8 ins.	.03	.02	1000 occ. hoveyi, 1-yr., T. .	.15	.15
5000 densiflora, 4-yr., T. 8 to 15 ins.	.08	.07	1000 occ. nigra, 2-yr., T. 6 to 8 ins.	.30	.30
10,000 mughus, 2-yr., S. 2 to 4 ins.	.06	.05	2000 occ. nigra, 4-yr., TT. 10 to 12 ins.	.45	.45
10,000 mughus, 3-yr., S. 2 to 6 ins.	.09	.08	1000 occ. pyramidalis, 2 1/4-in. pots. 10 to 12 ins.	.25	.25
5000 mughus, 4-yr., T. 4 to 8 ins.	.12	.10	1500 occ. pyramidalis, 3-yr., T. 8 to 12 ins.	.30	.30
2000 mughus, 4-yr., T. 6 to 10 ins.	.30	.25	500 occ. pyramidalis, pot grafts.	.35	.35
6000 nigra austriaca, 2-yr., S. 3 to 7 ins.	.06	.05	500 occ. pyramidalis, 2-yr. grafts. 15 to 24 ins.	.70	.70
1500 nigra austriaca, 3-yr., T. 4 to 8 ins.	.12	.10	1000 rosenthalii, 4-yr., TT. .	.45	.45
5000 strobis, 3-yr., T. 5 to 10 ins.	.08	.07	400 occ. spiralis, TT. 12 to 18 ins.	.60	.60
10,000 strobis, 4-yr., T. 5 to 10 ins.	.12	.10	1000 occ. wareana, 2 1/4-in. pots. 6 to 8 ins.	.25	.25
20,000 sylvestris, 2-yr., S. 3 to 6 ins.	.03	.02 1/2	1500 occ. wareana, 2-yr., T. 6 to 8 ins.	.30	.30
15,000 sylvestris, 2-yr., S. 6 to 12 ins.	.05	.04	1000 occ. wareana, TT. 8 to 12 ins.	.35	.35
3000 thunbergi, 2-yr., T. .	.05	.04	1000 occ. wareana plicata, 2-yr., T. 5 to 10 ins.	.30	.30
4000 thunbergi, 4-yr., T. 12 to 18 ins.	.10	.09	1000 occ. woodwardii, 2 1/4-in. pots. 4 to 8 ins.	.20	.20
10,000 Pseudotsuga douglasii, 2-yr., S. 2 to 5 ins.	.04	.03	250 occ. woodwardii, 2-yr., T. 6 to 8 ins.	.30	.30
1000 Pseudotsuga douglasii, T. 6 to 9 ins.	.10	.09	800 occ. woodwardii, TT. 8 to 12 ins.	.35	.35
1000 Pseudotsuga douglasii, TT. 6 to 8 ins.	.20	.20	5000 Thuja orientalis, 2-yr., S. .	.63	.63
200 Rhododendron Album Elegans, pot grafts.	.75	.75	2000 Thuja orientalis, 4-yr., T. 10 to 18 ins.	.07	.07
100 Boule de Neige, pot grafts.	.75	.75	1000 Thuja orientalis aurea nana, pot grafts.	.35	.35
100 Caracina, pot grafts.	.75	.75	1000 Thuja orientalis aurea nana, 2-yr. grafts.	.60	.60
100 Everestianum, pot grafts.	.90	.90	10,000 orientalis compacta, 2-yr., S. 4 to 12 ins.	.05	.05
100 Ignatius Sargent, pot grafts.	.90	.90	50,000 Tsuga canadensis (collected), seedlings.		
100 Lord Roberts, pot grafts.	.90	.90	6 to 12 ins.	.10	.10
200 Mrs. P. Den Ouden, pot grafts.	.90	.90	3000 canadensis, 3-yr., T. 10 to 12 ins.	.35	.35
200 Prof. F. Bettez, pot grafts.	.90	.90	200 sargentii, pot grafts.	.75	.75
300 Roseum Elegans, pot grafts.	.75	.75	100 sargentii, 1-yr., grafts.	.90	.90
100 Van der Broeke, pot grafts.	.75	.75			
100 Van der Hoop, pot grafts.	.90	.90			
100 Van der Deerden Poelman, pot grafts.	.90	.90			
100 Mrs. C. S. Sargent, pot grafts.	.90	.90			

parts) in such veneration amongst them, that no broths, pottage or physical meats are worth anything, if setwall were not an end: Whereupon some woman poet or other had made these verses . . .

They that will have their heale,  
Must put setwall in their keale.

It is generally used in sleight cuts, wounds and small hurts."

The drug is still used in medicine, especially for hysteria, for low fevers and as a nerve tonic. In fact, it was cultivated commercially as a drug crop in Vermont and New York as well as in Europe before World War II.

Its association in our minds with the herbalists and medicine has blinded many gardeners to the land-

scape value of this splendid plant. And when it is used it is seldom in a way that shows its greatest beauty.

Plant valeriana in ordinary soil, and it will grow up to four feet tall, with a rather small cyme of pinkish-lavender flowers of the characteristic sweet valerian fragrance; give it a thoroughly enriched soil, leaf mold and rotted manure by preference, dug deeply, and moisture when the weather is dry, and it will grow to six feet or more in stature. It is then an imposing sight, especially when used in masses. Although the plant has long been in gardens and is today found in many plantings, neighborhood growers will likely find it to their advantage if they put a few clumps in their display grounds to

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	100 rate each	1000 rate each		100 rate each	1000 rate each
200 <i>Abelia grandiflora</i> , 1-yr., C.....	\$0.10	...	300 <i>Lonicera halliana</i> , 1-yr., T, 12 to 18 ins....	\$0.08	...
200 <i>Acer dasycarpum</i> , whips, 3 to 4 ft.....	.35	...	100 <i>Lonicera heckrottii</i> , 1-yr., T.....	.15	...
100 <i>Acer dasycarpum atropurpureum</i> , 1-yr., grafts.....	.90	...	300 <i>Magnolia soulangeana</i> , pot grafts.....	.60	...
1000 <i>Acer palmatum</i> , 1-yr., S, No. 2.....	.04	\$0.03½	200 <i>Magnolia soulangeana</i> , 1-yr., T, grafts, 12 to 18 ins.....	.75	...
5000 <i>Althaea (Hibiscus)</i> , 1-yr., S.....	.03½	.03	200 <i>Magnolia soulangeana</i> , 1-yr., T, grafts, 18 to 24 ins.....	1.00	...
200 <i>Ampelopsis heterophylla</i> , 1-yr., S.....	.10	...	150 <i>Malus atrosanguinea</i> , 1-yr., grafts.....	.35	...
2000 <i>Ampelopsis veltchii</i> , 1-yr., S, No. 2.....	.03	.02½	100 <i>hupchensis</i> , 1-yr., grafts.....	.35	...
1000 <i>Berberis thunbergii</i> , 1-yr., S, 6 to 12 ins.....	.03	.02	100 <i>neldswetskyana</i> , 1-yr., grafts.....	.35	...
2000 <i>Berberis thunbergii</i> , 2-yr., T, 9 to 12 ins.....	.07½	.06	100 <i>purpurea cleyi</i> , 1-yr., grafts.....	.35	...
5000 <i>Cornus florida</i> , 1-yr., S, No. 2.....	.03	.02½	100 <i>sargentii</i> , 2-yr., grafts.....	.45	...
2000 <i>Cornus florida rubra</i> , pot grafts.....	.40	.37½	500 <i>Philadelphus coronarius</i> , H.W.C.....	.06	...
2000 <i>Cornus kousa</i> , 2-yr., T.....	.20	.15	2000 <i>coronarius aureus</i> , 2½-in. pots.....	.15	\$0.12½
1000 <i>Cornus kousa</i> , 3-yr., T.....	.35	.30	1000 <i>lemoinei</i> , 2-yr., C, 9 to 12 ins.....	.06	.05
200 <i>Cotoneaster wilsoni</i> , 2-yr., C, 9 to 12 ins.....	.25	.15	1000 <i>lemoinei</i> , 2-yr., C, 12 to 18 ins.....	.12	.10
8000 <i>Cydonia japonica</i> , 1-yr., S.....	.03½	.03	750 <i>lemoinei Albatre</i> , H.W.C.....	.06	.05½
2000 <i>Cydonia japonica</i> , 2-yr., T.....	.06½	.07½	1500 <i>virginialis</i> , H.W.C.....	.10	.09½
3000 <i>Daphne eneorum</i> , R.C. (from bench).....	.12	.10	1150 <i>Physocarpus monogynus</i> , 2-yr., C, 9 to 12 ins.....	.06	.05
2000 <i>Deutzia gracilis</i> , R.C. (from flats).....	.05	.04	300 <i>Populus alba</i> , 1-yr., C, 3 to 4 ft.....	.12	...
1000 <i>Deutzia gracilis</i> , 1-yr., C.....	.08	.07½	300 <i>Populus nigra Italica</i> , 1-yr., C, 4 to 6 ft.....	.15	...
500 <i>Deutzia gracilis</i> , 2-yr., C, 9 to 12 ins.....	.15	.12½	30 <i>Prunus Amanogawa</i> , 1-yr., whips, 2 to 3 ft.....	.75	...
500 <i>Deutzia lemoinei</i> , 2-yr., C, 9 to 12 ins.....	.10	...	700 <i>Prunus serrulata Kwanzan</i> , 1-yr., whips, 2 to 3 ft.....	.50	...
100 <i>Elaeagnus argentea</i> , 2-yr., T, 12 to 15 ins.....	.25	...	200 <i>Prunus serrulata Kwanzan</i> , 1-yr., whips, 3 to 4 ft.....	.75	...
500 <i>Elaeagnus umbellata</i> , 2-yr., T.....	.25	.20	500 <i>Ribes alpinum</i> , 2-yr., C, 9 to 12 ins.....	.15	...
1000 <i>Euonymus alatus</i> , S.W.C.....	.11	.10	10,000 <i>Rosa multiflora</i> , 1-yr., S, 2 to 3 mm.....	.02½	.02
500 <i>Euonymus alatus</i> , 2-yr., S.....	.10	.10	10,000 <i>Rosa multiflora</i> , 1-yr., S, 3 to 4 mm.....	.03½	.02½
1700 <i>Euonymus alatus compactus</i> , S.W.C.....	.11	...	100 <i>Salix pentandra</i> , 2-yr., C, 5 to 6 ft.....	.75	...
1000 <i>Euonymus vegetus</i> , R.C. (from flats).....	.10	.09	100 <i>Sophora japonica</i> , 1-yr., S.....	.10	...
2000 <i>Euonymus vegetus</i> , 2-yr., T, 6 to 10 ins.....	.30	.25	500 <i>Sorbus aucuparia</i> , whips, 3 to 4 ft.....	.50	...
1500 <i>Forsythia spectabilis</i> , H.W.C.....	.07½	.06	200 <i>Sorbus aucuparia</i> , whips, 4 to 6 ins.....	.65	...
1000 <i>Hydrangea arb. grandiflora</i> , 1-yr., T, 12 to 18 ins.....	.15	.12½	1500 <i>Spiraea Anthony Waterer</i> , 2-yr., C, 6 to 9 ins.....	.15	.12½
1000 <i>Hydrangea arb. grandiflora</i> , 1-yr., C.....	.06	.05½	300 <i>Spiraea Anthony Waterer</i> , 2-yr., T, 9 to 12 ins.....	.20	.15
100 <i>Hydrangea paniculata</i> single, 1-yr., C.....	.10	...	1500 <i>Spiraea froebeli</i> , 2-yr., C, 9 to 12 ins.....	.10	.08
2500 <i>Hydrangea pan. grandiflora</i> (P.G.), 2-yr., C, 9 to 12 ins.....	.12	.10	1000 <i>Symphoricarpos chenaultii</i> , 2-yr., C, 9 to 12 ins.....	.07	.06
500 <i>Hydrangea pan. grandiflora</i> (P.G.), 2-yr., T, 12 to 18 ins.....	.20	.15	500 <i>Symphoricarpos vulgaris</i> , 2-yr., C, 9 to 12 ins.....	.06	.05
200 <i>Hydrangea petiolaris</i> , 2-in. pots.....	.15	...	500 <i>Viburnum burkwoodii</i> , pot grafts.....	.40	...
1500 <i>Kolkwitzia amabilis</i> , 1-yr., T.....	.11	.10	500 <i>Viburnum carlesi</i> , pot grafts.....	.40	...
1000 <i>Kolkwitzia amabilis</i> , 2-yr., T, 12 to 18 ins.....	.30	.25	500 <i>Viburnum opulus nana</i> , 1-yr., T.....	.10	...
1000 <i>Laburnum vulgare</i> , 1-yr., S.....	.06	.05	500 <i>Viburnum tomentosum</i> , 2-yr., C, 9 to 12 ins.....	.18	...
2000 <i>Ligustrum ovalifolium</i> light, 1-yr., C.....	.04	.02½	500 <i>Weigela Eva Rathke</i> , 2-yr., C, 6 to 9 ins.....	.10	...
5000 <i>Ligustrum amurense</i> north, 1-yr., C.....	.04	.02½	1000 <i>Weigela rosea</i> , 1-yr., C, 12 to 18 ins.....	.08	.07½
5000 <i>Ligustrum amurense</i> , north, 1-yr., 12 to 18 ins.....	.05	.04½	1000 <i>Weigela rosea</i> , 1-yr., C, 18 to 24 ins.....	.10	.09
1000 <i>Ligustrum ibolium</i> , light, 1-yr.....	.04	.02½	500 <i>Weigela rosea variegata</i> , 2-yr., C, 9 to 12 ins.....	.10	...
300 <i>Lonicera bella albida</i> , H.W.C.....	.05	.04½	10,000 <i>Wistaria sinensis</i> , 1-yr., S.....	.03½	.03

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[Continued on page 62.]

## ORNAMENTAL STOCK

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*Ilex C. Rotundifolia*  
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# Oak Wilt Conference

By Noel B. Wysong

The national oak wilt research committee and its advisory board met at the Peabody hotel, Memphis, Tenn., December 4, to discuss a long-range program of research directed toward control of the oak wilt disease and to consider methods of financing this program. Members of the committee present were Chairman Leonard R. Steidel, manager of the cooperage division of the National Distillers Products Corp.; John Wright, Railway Tie Association; L. J. Heatherly and Henry Jones, Southern Hardwood Producers, Inc.; Thomas J. Mitchell, Appalachian Hardwood Manufacturers, Inc.; T. O. Helm, Associated Cooperage Industries, and Henry H. Willins, National Oak Flooring Manufacturers' Association. Advisory board members present included Dr. A. J. Riker, University of Wisconsin; Dr. C. M. Tucker, University of Missouri; Dr. Curtis B. May, United States Department of Agriculture; W. H. Bragonier, Iowa State College; Dr. L. R. Tehon, Illinois Natural History Survey, and N. B. Wysong, forest preserve district of Cook county, Illinois. Present also as invited guests were research scientists from several universities and colleges and representatives of a number of oak-using industries.

Chairman Steidel briefly reviewed the proceedings of two previous meetings held in Illinois which led to the formation of an advisory board composed of plant pathologists and the agreement that the board would prepare plans for expanded research on the oak wilt disease. He said the disease seemed to present a threat serious enough to warrant decisive action in view of the tremendous capital investments of industry in oak products.

As spokesman for the advisory board, Dr. A. J. Riker told of the progress that has been made in research on the oak wilt disease. He pointed out that it had been learned that the disease was caused by a fungus, *Chalara quercina*, and that it could be transmitted in localized areas through natural root grafting of trees. Remaining to be discovered, he said, are the manner in which the disease is carried considerable distances from infected trees and methods of control. Phases of a broad research program might include development of methods of treating individual trees to prevent the disease

or to counteract its effects, search for strains or species of oaks resistant to the disease; studies to determine what plants other than oaks, if any, serve as hosts of the fungus; tests to ascertain the length of time the fungus will live in the wood of a tree killed by oak wilt and in lumber produced therefrom, and exploratory work on similar related problems.

If such a program should be financed by the timber products industry, Dr. Riker said, all funds so derived would be used to supplement, and not to supplant, those now available at the various agencies presently engaged in research on the disease. With ample funds available for employing additional personnel and meeting increased expenses, he said, the tempo of research activities could be increased and more accomplished in a shorter period of time. He assured the committee that none of the research agencies involved would decrease present allotments because of the receipt of such funds.

For consideration by members of the national oak wilt research committee, Dr. Riker stated, expanded research programs had been prepared in outline form during the past few months by the University of Wisconsin, Iowa State College, University of Minnesota, University of Missouri, Ohio agricultural experiment station and the Illinois Natural History Survey. It was estimated that a budget of approximately \$70,000 a year would be necessary if all the projects outlined in the proposed programs were put into effect. Planning for a coordinated program of at least three years' duration was advocated. Representatives of four of the institutions from which programs had been submitted briefly explained their proposals.

Dr. C. M. Tucker, of the University of Missouri, reported that in cooperation with the United States Department of Agriculture an aerial survey was made of the Ozarks region of Missouri and northern Arkansas during the summer of 1950 with satisfactory results. Because of the unusual brown to bronze discoloration of their leaves, wilting oaks were easily discernible from the air. Suspect trees were plotted on maps,

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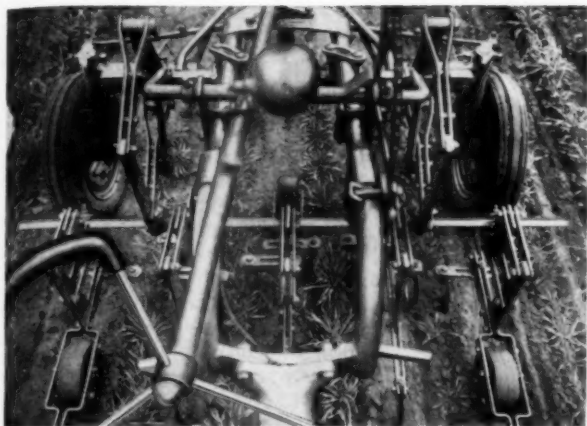
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2000 Juniper, Andorra	18.00	160.00
6000 Juniper, Glauca Hetzi	22.00	200.00
3000 Juniper, Kosteri	20.00	180.00
4000 Juniper, Pfitzeriana	22.00	200.00
6000 Juniper, Savin	20.00	180.00
5500 Juniper, Von Ehron	20.00	180.00

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14,000 Austrian Pine, 6 to 9 ins.	6.00	55.00
30,000 Mugho Pine, 3 to 6 ins.	4.00	35.00
20,000 Mugho Pine, 6 to 9 ins.	5.50	50.00
15,000 Scotch Pine, 6 to 8 ins.	4.50	40.00
10,000 Scotch Pine, 8 to 10 ins.	5.50	50.00
30,000 Black Hills Spruce, 2 to 4 ins.	3.00	25.00
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Box 457

Lake City, Minnesota

then checked by ground crews. The survey revealed that the disease was quite widely spread in Missouri, but was apparently just starting in Arkansas. His proposed research program included study of plants other than oaks which might act as hosts to the fungus and intensive investigations to determine the method of spread. Because of the relatively light infection in Arkansas it was the general consensus that this phase of research was important in that area and might produce results that would be difficult to obtain in areas of more widespread infection.

Dr. L. R. Tehon, of the Illinois Natural History Survey, stated that the oak wilt disease had been present in Illinois for several years and that it had caused a considerable amount of damage in forests used for commercial purposes as well as in those used for recreation. He said there is concern not only for the forests, but also for the possible effect of the death of the trees on water runoff, soil erosion and flood conditions over the water sheds of the state. He proposed research directed toward ascertaining the method of spread and control of the disease.

Dr. James E. Kuntz, of the University of Wisconsin, cited the facts that the disease was first discovered in Wisconsin and that research work had been in progress there for a number of years. His proposed program included further studies of the method of spread, methods of controlling the disease in localized areas by isolating centers of infection through trenching and the use of chemicals and the possibility of developing resistant species.

In presenting his program, Dr. W. H. Bragonier, of Iowa State College, said that research work had been in progress in Iowa since 1943 and that at present members of his staff were seeking to discover the method of spread, means of control and methods of treating individual trees to prevent or eliminate infection. He proposed that this research be continued.

During the general discussion that followed the presentation of the proposed research programs, it was brought out that the oak wilt disease had been found in Arkansas, Nebraska, Ohio and Pennsylvania during 1950 and that previously it was known to occur in Wisconsin, Minnesota, Iowa, Illinois, Indiana and Missouri. Dr. Curtis May said that oak wilt was a matter of grave concern to the division of forest pathology of the United States Department of Agriculture, from the national as-



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2073695

THIS EXCLUSIVE FEATURE insures healthy, growing plants. The bottom tabs on all Cloverset Pots seal in place after first watering, leaving correct opening for proper drainage.

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NOW THAT '51 IS HERE it's high time to complete your plans for spring and summer business. And, of course, if you want MORE business with a bigger margin of profit, you'll want plenty of Cloverset Pots on hand. This is the best time to order; then you will have them when you are ready to start potting.

Thousands of nurserymen the country over have proved that it pays to do business the Cloverset way. Cloverset Pots save time in the potting room; they make plants easier to handle from start to bloom; they attract customers and extend your profitable cash-and-carry business from early spring to late fall. And they cost so little that you can easily afford to give them away with the plants.

But we urge you not to delay ordering; naturally, first orders get earliest shipment. Don't be caught short without the Cloverset Pots you need to help your business show a bigger profit this year!

(If you haven't yet discovered the advantages of using these easy-handling, time-saving pots, mail the coupon right away for a free copy of our big illustrated Potting Guide, and order a complete set of sample pots. One pot each of all eight sizes and weights will be sent promptly for only 50c, postpaid.)



### PRICE LIST EFFECTIVE JAN. 1, 1951

TYPE	Height	Top Diam.	Nearest Clay Pot	Approx. Weight	PRICE		
<b>SPECIAL LIGHT</b> (Packed 200 in carton)					Per 200	Per 200	Per 1000
No. 0	5½ ins.	5 ins.	6 ins.	25 lbs.	\$5.50		\$25.00
No. 1	6½ ins.	6 ins.	7 ins.	37 lbs.	7.50		35.00
No. 2	9½ ins.	7 ins.	8 ins.	50 lbs.	8.50		40.00
<b>STANDARD HEAVY</b> (Packed 100 in carton; 300 or more at 1000 price)					Per 100	Per 100	Per 1000
No. 0	5½ ins.	5 ins.	6 ins.	35 lbs.	\$3.25		\$30.00
No. 1	6½ ins.	6 ins.	7 ins.	52 lbs.	4.50		42.50
No. 2	9½ ins.	7 ins.	8 ins.	78 lbs.	5.00		47.50
No. 3	9 ins.	8 ins.	9 ins.	88 lbs.	5.50		52.50
<b>EXTRA HEAVY</b> (Packed 25 in carton)					Per 100	Per 25	Per 50
No. 4	13 ins.	12 ins.		200 lbs.	\$7.00	\$13.25	\$19.75
					Per 100	Per 1000	
					\$23.75		\$210.00

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Kansas City 5, Missouri

Please send items checked. I enclose \$\_\_\_\_\_

☐ SAMPLE SET, 50c postpaid.

☐ FREE POTTING GUIDE.

☐ CLOVERSET POTS in quantities noted below. (We will ship via freight unless otherwise specified.)

SIZE	QUANTITY	WEIGHT	TOTAL PRICE
No. 0			
No. 1			
No. 2			
No. 3			
No. 4			

NAME \_\_\_\_\_

FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_



# SHRUBS for SPRING

Be sure your spring requirements for shrubs are covered as quickly as possible. Many varieties are short in supply this year. Reserve your needs NOW for shipment when you need the stock. Avoid possible disappointment of not being able to get the stock later during the spring season.

Our shrubs are all graded strictly according to  
A. A. N. standards.

	Per 10	Per 100		Per 10	Per 100
<b>Almond, pink-flowering</b>			<b>Honeysuckle, tatarica rosea</b>		
2 to 2½ ft., own root...	\$5.50	\$50.00	3 to 4 ft.	\$5.50	\$50.00
18 to 24 ins., own root...	4.00	35.00	2 to 3 ft.	4.50	40.00
12 to 18 ins., own root...	2.90	25.00	18 to 24 ins.	3.20	28.00
<b>Althaea, red, pink, purple or white.</b>			<b>Honeysuckle, tatarica rubra</b>		
3 to 4 ft.	4.00	35.00	<b>Wheeling.</b>		
2 to 3 ft.	2.90	25.00	2 to 3 ft.	4.50	40.00
18 to 24 ins.	2.10	18.00	18 to 24 ins.	3.20	28.00
<b>Barberry, Red-leaved</b>			<b>Honeysuckle, zabeli</b>		
18 to 24 ins.	4.00	35.00	2 to 3 ft.	4.50	40.00
15 to 18 ins.	3.50	30.00	18 to 24 ins.	3.20	28.00
12 to 15 ins.	2.90	25.00	<b>Hydrangea arborescens grandiflora</b>		
<b>Barberry, Thunbergi</b>			2 to 3 ft.	5.50	50.00
18 to 24 ins.	2.90	25.00	18 to 24 ins.	4.50	40.00
15 to 18 ins.	2.40	20.00	12 to 18 ins.	3.20	28.00
12 to 15 ins.	1.90	16.00	<b>Hydrangea Peegee (Meehan strain)</b>		
<b>Buddleia Charming, pink</b>			2 to 3 ft.	5.50	50.00
No. 1	3.20	28.00	18 to 24 ins.	4.50	40.00
Medium	2.50	22.00	12 to 18 ins.	3.20	28.00
<b>Buddleia Dubonnet, reddish-purple</b>			<b>Lilac, rothomagensis</b>		
No. 1	3.20	28.00	2 to 3 ft.	5.00	45.00
Medium	2.50	22.00	18 to 24 ins.	4.00	35.00
<b>Buddleia Floralart, lavender</b>			<b>Philadelphus coronarius</b>		
No. 1	3.20	28.00	3 to 4 ft.	5.00	45.00
Medium	2.50	22.00	2 to 3 ft.	4.00	35.00
<b>Buddleia, red</b>			18 to 24 ins.	2.90	25.00
No. 1	4.00	35.00	<b>Philadelphus virginialis</b>		
Medium	2.90	25.00	2 to 3 ft.	5.50	50.00
<b>Buddleia, white</b>			18 to 24 ins.	4.50	40.00
No. 1	4.00	35.00	<b>Rose Acacia (Grafted stock)</b>		
Medium	2.90	25.00	2 to 3 ft.	4.50	40.00
<b>Cornus sanguinea</b>			18 to 24 ins.	3.50	30.00
2 to 3 ft.	4.50	40.00	<b>Russian Olive</b>		
18 to 24 ins.	3.20	28.00	3 to 4 ft.	5.00	45.00
<b>Deutzia corymbosa</b>			* 2 to 3 ft.	4.00	35.00
2 to 3 ft.	4.50	40.00	<b>Spiraea Anthony Waterer</b>		
18 to 24 ins.	3.20	28.00	15 to 18 ins.	3.50	30.00
<b>Deutzia Pride of Rochester</b>			12 to 15 ins.	2.90	25.00
2 to 3 ft.	4.00	35.00	<b>Spiraea arguta</b>		
18 to 24 ins.	2.90	25.00	2 to 2½ ft.	4.00	35.00
<b>Euonymus europaeus</b>			18 to 24 ins.	3.50	30.00
3 to 4 ft.	5.50	50.00	12 to 18 ins.	2.40	20.00
2 to 3 ft.	4.50	40.00	<b>Spiraea froebeli</b>		
<b>Forsythia intermedia spectabilis</b>			2 to 2½ ft.	3.50	30.00
3 to 4 ft.	5.50	50.00	18 to 24 ins.	2.90	25.00
2 to 3 ft.	4.50	40.00	12 to 18 ins.	2.10	18.00
18 to 24 ins.	3.20	28.00	<b>Spiraea thunbergi</b>		
<b>Forsythia Spring Glory</b>			2 to 2½ ft.	4.00	35.00
3 to 4 ft.	6.00	55.00	18 to 24 ins.	3.50	30.00
2 to 3 ft.	5.00	45.00	12 to 18 ins.	2.40	20.00
18 to 24 ins.	4.00	35.00	<b>Spiraea vanhouttei</b>		
<b>Honeysuckle, fragrantissima</b>			3 to 4 ft.	4.00	35.00
2 to 3 ft.	4.50	40.00	2 to 3 ft.	2.90	25.00
18 to 24 ins.	3.20	28.00	18 to 24 ins.	2.10	18.22
<b>Honeysuckle, morrowi</b>			<b>Weigela Eva Rathke</b>		
3 to 4 ft.	5.50	50.00	18 to 24 ins.	4.50	40.00
2 to 3 ft.	4.50	40.00	12 to 18 ins.	3.20	28.00
18 to 24 ins.	3.20	28.00	<b>Weigela rosea</b>		
			3 to 4 ft.	5.50	50.00
			2 to 3 ft.	4.50	40.00
			18 to 24 ins.	3.20	28.00

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Ottawa, Kansas

pect of extensive and valuable oak forests through which the disease might spread. He expressed approval of the efforts being made by the national oak wilt research committee to help solve the problems in connection with establishing control of the disease.

Members of the committee concurred in the opinion that the disease presented a danger to oak forests and expressed satisfaction with the research programs presented. It was agreed that members of the committee would attempt to raise sufficient funds within the various timber products industries to finance the coordinated program. The next meeting of the national oak wilt research committee and its advisory board tentatively was set for February 13, at Chicago.

### CONNECTICUT MEETING ON CONSERVATION.

When the first Connecticut conservation conference was held November 16 at the Hotel Bond, Hartford, under the auspices of the Natural Resources Council of Connecticut, six nurserymen attended as delegates from the Connecticut Nurserymen's Association, among them Peter Cascio. The several hundred delegates to the meeting represented about forty national, state and local organizations interested in preserving the state's natural resources.

A large sign reading "Plant America" was suspended above the backdrop to the speakers' table which was framed with evergreens. Louis Bromfield, author and owner of Malabar Farm, Lucas, O., was the principal speaker.

Among the speakers at the business sessions was W. B. Young, dean of agriculture, University of Connecticut, Storrs, who advocated rewriting the state soil conservation act as a means of obtaining over-all permanent conservation methods. The seriousness of the state's decreasing water supply and forest areas was emphasized by other speakers.

### DR. HORSFALL HEADS PHYTOPATHOLOGISTS.

Dr. James G. Horsfall, director of the Connecticut agricultural experiment station, was elected president of the American Phytopathological Society when its members met at Memphis, Tenn., in December. More than 1,400 scientists engaged in plant disease research belong to the society.

Besides having served on various



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**Bluespire Arborvitae**, 30 to 36 ins., 2-yr., extra-green, extra-compact and generously graded, \$1.25 each.

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Berckmanns Golden Arborvitae	Each
15 to 18 ins.	\$1.00
18 to 24 ins.	1.50
24 to 30 ins.	2.00

### Pfitzer Junipers

18 to 24 ins., \$2.00 each.  
Heavily sheared, full, young plants.



**Excelsa Stricta Juniper**, 15 to 18 ins. and 18 to 24 ins. One-half of field has been heavily sheared (top left), others are growing natural. 15 to 18 ins., \$1.25; 18 to 24 ins., \$1.50; 24 to 30 ins., \$2.00 each.



Spiny Greek Juniper	Pfitzer Juniper	Baker's Arborvitae
18c each	18c each	15c each

All our Liners are grown in 2½-inch, deep pots.

Write for a Complete List—30 varieties—Conifers and Broadleaves



**Excelsa Arborvitae**, 2-yr., bushy-grown plants of quality. Worthy of anybody's salesyard. 24 to 30 ins., \$1.40 each.

**SPECIAL  
IRISH JUNIPER**  
18 to 24 ins., 45c each  
Container-grown.

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committees for the group, Dr. Horsfall was councilor in 1941 and vice-president in 1950. Recognized nationally as a leading pathologist, he was professor and chief of research in plant pathology at the New York agricultural experiment station, Geneva, for many years. From 1939 until 1948 he headed the plant pathology department at the Connecticut station, and he was appointed director in 1948. Especially interested in the development of new fungicides for the control of plant diseases, he has pioneered in the use of chemotherapy for that purpose.

**CLARENCE ALDRICH**, Aldrich's Nursery, Farmington, Mich., is spending the winter months at Miami, Fla.

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Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

**We grow good Evergreen Liners, Seedlings and Transplants**

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NEWFANE, N. Y.

### SPRING SURPLUS

	Each
20 Weeping Cherry, 2-yr., heavy.	\$4.50
20 Hawthorn, Paul's Scarlet, 7 to 8 ft.	4.00
10 Laburnum Vossii, 7 to 8 ft.	4.00
10 Weeping Red Peach, 5 to 6 ft.	3.00
15 Cherry, Kwanzan, 5 to 6 ft.	3.50
10 Malus Atrosanguinea, 6 to 8 ft.	3.50
10 Malus Eleyi, 6 to 8 ft.	3.50
10 Malus Niedzwetzkyana, 6 to 8 ft.	3.50
6 Cercis Canadensis, 7 to 9 ft.	5.00

Cash, please.

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Broad-leaved Evergreens and a general line of quality ornamentals.

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## AMERICAN ASSOCIATION OF NURSEYMEN

RICHARD P. WHITE,  
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,  
WASHINGTON 5, D. C.

### PAMPHLETS TO FURTHER "PLANT AMERICA" PROGRAM.

In order to tie together more closely the four most important phases of the "Plant America" program of the American Association of Nurserymen, which are home planting, farm planting, community planting and industrial planting, the A. A. N. is offering to its members a series of four pamphlets on these subjects. The first in the series, "Plant America Means Soil Conservation," is now available and may be ordered from the A. A. N. office in lots of 100 copies at 5 cents each, in lots of 1,000 copies at 3 cents each or lots of 5,000 copies at 2 cents each. The other three pamphlets will be entitled "Plant America Means Better Living," "Plant America Means Community Betterment" and "Plant America Means Industrial Beautification."

The 4-page pamphlet, "Plant America Means Soil Conservation," is 8½x11 inches, so it may be easily folded for enclosure in a No. 10 envelope. It tells how the future of America depends on conservation of natural resources, tells how planting for conservation is profitable and how trees and shrubs are both useful and ornamental for this purpose. It also tells what to do, why and how to start conservation plantings.

The soil conservation pamphlet is tied in with farm planting in order to educate farmers to look to commercial nurseries first for trees and shrubs for planting farm woodlot areas, windbreaks and for soil erosion control, as well as for fruit gardens and home plantings. One hundred copies of this pamphlet were requested by the Soil Conservation Service for distribution to its division personnel in the field, and the service has been cooperative in having soil conservation plantings supplied by commercial nurseries, while forest tree seedlings of certain other government services are supplied by public tax-supported nurseries, and private nurseries are given no consideration. Tying in with soil conservation the home plantings and fruit tree plantings, which must be purchased from private nurseries, will tend to direct attention to privately owned nurseries as a source of sup-

ply for all nursery stock, the A. A. N. believes.

### ROTARY COMMITTEE MEN.

Two nurserymen, Vernon Burkhardt, Barnesville, O., and Charles G. Tennent, Asheville, N. C., are committee members of Rotary International for 1950-51. Mr. Burkhardt serves as a member of the extension committee for the United States, Canada and Britain, and Mr. Tennent is chairman of the aims and objects committee and ex officio member of the 1951 and 1952 convention committees.

Since 1927 proprietor of the Burkhardt Nurseries, Barnesville, and an

A. A. N. member, Mr. Burkhardt is past president of the Barnesville Business Bureau and of the Rotary Club of Barnesville.

Mr. Tennent entered the landscape business in 1924, developing the Tennent Nurseries. He is a member of the North Carolina Nurserymen's Association and is a director of the Buncombe county nursery schools, the Asheville colored hospital and a trustee of the Asheville-Biltmore Junior College. He is a past president of the Rotary Club of Asheville. He has served Rotary International as vice-president, district governor and committee chairman.

### DUMMETT RECEIVES MEDAL.

Arthur Dummett, formerly at Bernardsville, N. J., and now living at Delray Beach, Fla., spent last month visiting his children in New York and, December 4, received a medal from Hiawatha lodge, Mount Vernon, N. Y., for fifty years of

### NORTHERN - GROWN LINING - OUT STOCK

	Per 100	Per 1000
<i>Betula papyrifera</i>		
1 to 2 ft.	\$ 6.00	\$ 50.00
2 to 3 ft.	5.00	70.00
3 to 4 ft.	25.00	....
4 to 6 ft.	40.00	....
<i>Clethra alnifolia</i>		
6 to 18 ins.	6.00	50.00
<i>Ilex verticillata</i>		
1 to 2 ft.	6.00	50.00
<i>Syringa vulgaris</i>		
1 to 2 ft.	6.00	50.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.	6.00	50.00

### EVERGREENS

<i>Abies balsamea</i>		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	8.00	60.00
<i>Thuja occidentalis</i>		
6 to 9 ins.	4.00	25.00
6 to 12 ins.	5.00	40.00
<i>Tsuga canadensis</i>		
4 to 8 ins.	4.00	25.00
8 to 12 ins.	5.00	40.00

### HEMLOCK TRANSPLANTS

<i>Tsuga canadensis</i>		
4 to 8 ins., 1-yr. tr.	12.00	100.00
8 to 12 ins., 2-yr. tr.	18.00	160.00

The above stock is first-quality collected lining-out stock, except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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## TAXUS

Quality stock with J. B. certificate; in carload or truck-load lots.

TAXUS *capitata*, 2½ to 8 ft.

TAXUS *cuspidata*,  
1½ to 4 ft.

TAXUS *nana* and  
*intermedia*, 1 to 3 ft.

TAXUS *hicksi* and *hatfieldi*,  
2 to 4 ft.

Also

TAXUS *capitata* liners,  
3 to 4 yrs., 1 to 2 ft.

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Babylon, L. I., N. Y.

QUALITY MERCHANDISE  
AT REASONABLE PRICES

### VANDEBROOK NURSERIES

MANCHESTER, CONN.

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## GRAFTED STOCK For Spring, 1951, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i> .....	\$7.00	\$65.00	<i>Magnolia stellata rosea</i> .....	\$6.50	\$60.00
<i>Acer palmatum dissectum atropurpureum</i> .....	7.00	65.00	<i>Magnolia stellata rubra</i> .....	7.00	65.00
<i>Cornus florida alba plena</i> .....	5.00	45.00	<i>Magnolia stellata, Water Lily</i> .....	6.50	60.00
<i>Cornus florida rubra</i> .....	5.00	45.00	<i>Magnolia rustica rubra</i> .....	7.00	65.00
<i>Cornus florida rubra Prosser</i> .....	7.00	65.00	<i>Thuja occidentalis douglasii (spiralis)</i> .....	4.50	40.00
<i>Fagus sylvatica riversi</i> .....	7.00	65.00	<i>Thuja occidentalis elegantissima</i> .....	4.50	40.00
<i>Ilex opaca femina</i> .....	5.00	45.00	<i>Thuja occidentalis lutea, Mary Corey</i> .....	4.50	40.00
<i>Juniperus chinensis columnaris glauca</i> .....	5.00	45.00	<i>Thuja occidentalis lutea, George Peabody</i> .....	4.50	40.00
<i>Juniperus chinensis columnaris viridis</i> .....	5.00	45.00	<i>Thuja occidentalis nigra</i> .....	4.50	40.00
<i>Juniperus chinensis keteleeri</i> .....	5.00	45.00	<i>Thuja occidentalis pyramidalis</i> .....	4.50	40.00
<i>Juniperus chinensis neoboriensis</i> .....	5.00	45.00	<i>Thuja occidentalis rosenthalii</i> .....	4.50	40.00
<i>Juniperus chinensis sargentii</i> .....	5.00	45.00	<i>Thuja occidentalis wareana (sibirica)</i> .....	4.50	40.00
<i>Juniperus chinensis sargentii glauca</i> .....	5.00	45.00	<i>Thuja orientalis aurea nana</i> .....	4.00	35.00
<i>Juniperus chinensis meyeri</i> .....	5.00	45.00	<i>Thuja orientalis conspicua</i> .....	4.00	35.00
<i>Juniperus virginiana burki</i> .....	5.00	45.00	<i>Thuja orientalis elegantissima</i> .....	4.00	35.00
<i>Juniperus virginiana canescens</i> .....	5.00	45.00	<i>Tsuga canadensis pendula</i> .....	5.50	50.00
<i>Juniperus virginiana elegantissima</i> .....	5.00	45.00	<i>Tsuga canadensis pendula, 1-yr. grafts</i> .....	7.00	65.00
<i>Juniperus virginiana glauca</i> .....	5.00	45.00	All the above shipped from 2 1/4-inch rose pots.		
<i>Juniperus virginiana globosa</i> .....	5.00	45.00			
<i>Juniperus virginiana kosteriana</i> .....	5.00	45.00			
<i>Juniperus virginiana schottii</i> .....	5.00	45.00			
<i>Juniperus virginiana pyramidiformis hillii</i> .....	5.00	45.00			
<i>Juniperus sabina Von Ehron</i> .....	5.00	45.00			
<i>Magnolia lennei</i> .....	7.00	65.00			
<i>Magnolia soulangeana</i> .....	6.50	60.00			
<i>Magnolia soulangeana nigra</i> .....	6.50	60.00			
<i>Magnolia stellata</i> .....	6.50	60.00			

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

### HESS' NURSERIES

### MOUNTAIN VIEW, N. J.

service. He was master in 1910. The medal was presented to him by Henry C. Turner, past grand master of Masons of the state of New York. Mr. Dummett will celebrate his seventy-seventh birthday February 4 and seems to be as chipper as ever. He has six children and eleven grandchildren.

#### HILLENMEYER-GROWN.

"Nursery Stock at Its Best" and "All Hillenmeyer-grown" read the signs on the decorated float entered by Hillenmeyer Nurseries, Lexington, Ky., in a local parade this fall to celebrate home-coming week. The display, mounted on the rear end of one of the firm's big trucks, consisted of nine youngsters "all Hillenmeyer-grown," as one sign boasted, sitting among evergreens, shrubs and flowers from the nurseries. Walter W. Hillenmeyer, Jr., was forced to admit that there were more Hillenmeyer children available, but the truck would not hold them all.

OWNERS of two greenhouses at Ocean Springs, Miss., Mr. and Mrs. L. D. Dunnaway have opened the Don-Phil Nursery, on West Howard avenue at Biloxi, Miss.



### MALONEY BROS. NURSERY CO., Inc. DANVILLE, NEW YORK

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One of the largest producers in New York State of Hardy Upland-grown, Inspected for Trueness-to-name Fruit Trees offers a complete assortment of

Apple-Plum, 1 and 2-yr.

Standard and Dwarf Pear, 1 and 2-yr.

Sweet and Sour Cherry-Quince, 1 and 2-yr.

Also Peach, 1-yr.

Also a good assortment of  
Shrubs, Shade Trees, Evergreens.

**Save Money—Let Us Quote on Your Requirements**

## J & P

**EVERGREENS  
SHADE TREES**

**SHRUBS, VINES  
HEDGE PLANTS, etc.**

In good assortment.

**Jackson & Perkins Co.**  
NEWARK, NEW YORK STATE



# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

*By E. Sam Hemming*

## BULB SALES THIS FALL.

A friend of mine, a local florist, saw me in town about the middle of the fall planting season and asked me how our bulbs were moving. I told him, "If I had not sold 1,000 tulips to one customer yesterday, I would say very poorly." Now at the end of the season, we find our season was poor.

Last year we sold out on bulbs; so this year we increased our order about twenty per cent. At the end of the season we had not sold more than one-half. My friend reported that his sales were about as poor.

I have no idea whether this is a local phenomenon or not, and if it is local, why. Our retail and landscape sales, in general, were good. Local hardware stores and 5 and 10-cent stores carried cheaper bulbs, but they usually do, and the class of customer to whom we cater does not buy the little bulbs.

I suppose the sudden drop was because of a combination of causes, such as the cheap bulbs available, the television boom, the high cost of living and the tense international situation. E. S. H.

## PLANT PATENTS.

The Supreme Court of the United States recently denied validity of patents for items which it termed "gadgets," in a brief that claimed that patents for gadget items did not fulfill the provision in the Constitution that a patented item must advance science. The field of patents and scientific discoveries has covered such wide territory that it is admittedly difficult to bring forth a new and basic idea.

In the field of plant patents no such difficulty exists, for the law is barely 20 years old. Yet in examining and observing the plants that are patented, I cannot help but wonder if the originators have not been treading in dangerous territory with some of their patents.

I speak, of course, about roses. I am not sure how many patented rose varieties there are, but the number must approach one-half of the almost 1,000 plant patents granted. As the number increases, the difficulty of distinguishing between similar patented varieties will also increase, to say nothing of the difficulty of dis-

tinguishing between a patented variety and one in existence for a number of years. The reason for the preponderance of rose plant patents is the popularity of the rose, its easy and profitable marketing and the fact that hybridizers have spent so much time on the plant.

The plant patent law is a much-needed one, and its potential value to plantmen is great. It would be a great pity and a serious disservice to nurserymen if there should ever arise a situation in which there were so many similar plant varieties that their differences were difficult to prove in an actual court case. The thorough checking by attorneys and the patent office horticulturists should not bear the full responsibility for vigilance in avoiding the granting of a patent to a variety that might be similar to another. Nurserymen and hybridizers should discipline themselves to avoid any danger of court complications. E. S. H.

## ACKNOWLEDGING ORDERS.

A recent bulletin of the American Association of Nurserymen carried the reprint of an article in Printers'

**PERENNIAL  
FLOWER SEEDS  
PLANTS  
ROOTING POWDERS**  
Send for your copy  
of our new catalog.

**Somerset**

SEEDS PLANTS  
New Brunswick, N. J.

Azalea Hindogiri, 3 to 6 ins., Per 100  
2-yr. T. \$15.00  
Baltic Ivy, 2-yr., R.C. 6.00  
English Box, 2 to 3 ins., T. 7.50  
3 to 4 ins., T. 10.00  
American Box, 3 to 4 ins., 7.50  
4 to 6 ins., 10.00  
6 to 8 ins., 15.00  
Hex Bullata, 4 to 6 ins., 2-yr. T. 15.00  
6 to 8 ins., T. 20.00  
Hex Crenata, 4 to 6 ins., 2-yr. T. 15.00  
6 to 8 ins., T. 20.00  
Leucothoe Catebael, 6 to 8 ins., T. 15.00  
Send for list.

**ALAN WOLD NURSERY**  
NESHAMINY, Bucks Co., PA.

## PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady areas in all climates. Strong, well rooted, 1-yr.-old plants, \$3.75 per 100; \$35.00 per 1000; 5000 or more at \$32.50.

**PEEKSKILL NURSERY SHRUB OAK, N. Y.**

Ink magazine that rebuked a nurseryman for improperly acknowledging the writer's order. This nursery—a large firm, it said—used the system now often used by large mail-order houses of requiring the customer to do their filing. The order is "lost" in the system until filled, at which time the order and all kinds of fancy forms are returned with the merchandise. Frankly, the system may be necessary for a firm doing a large volume of business, but I always considered it, when I was the customer, a very annoying method.

The accusation that nurserymen are sloppy in their methods of acknowledging orders has considerable basis. It is my own experience that we are too often guilty of one or more of the following faults: (1) Complete failure to acknowledge; (2) tardy acknowledgment; (3) acknowledgment with incomplete information, and (4) acknowledgment too impersonal.

It would seem unnecessary to comment on the first offense, yet we, as a landscape nursery having to purchase items from a number of different nurseries, get far too many orders shipped without any acknowl-

## NEW!

## VIBURNUM CHENAULTI

Another evergreen hybrid of *Viburnum carlesii*.

More compact in growth than *Viburnum burkwoodii*.

Flowers identical to *Viburnum carlesii*.

Liners 6 to 9 inches in plant bands.

Per 10 Per 100 Per 1000  
\$5.00 \$35.00 \$325.00

## FIELD-GROWN PLANTS

18 to 24 ins., B.B., \$17.50 for 10; \$150.00 for 100.

2 to 3 ft., B.B., \$25.00 for 10; \$225.00 for 100.

Packing at cost

## THE SIEBENTHALER COMPANY

CATALPA DRIVE DAYTON 5, OHIO

## LINING-OUT STOCK

Our Fall, 1950, price list is now ready. If you are interested in any special items, send us your list NOW.

**THOMAS B. MEEHAN CO., Inc.**  
DRESHER, PA.

## PRINCETON NURSERIES

Headquarters for Quality  
Ornamental Stock

Send us your want list.

**PRINCETON NURSERIES**

Princeton, New Jersey  
Phone: Princeton 1778



## Season's Greetings

Accept our gratitude over the past and our very best wishes for another prosperous year. No matter where one looks there is a home to be planted, so let's carry on to "Plant America."



### TAXUS MEDIA HALLORIANA

For something new for 1951 we show here a photograph of a specimen *Taxus Media Halloriana*. This variety we have to offer in lining-out sizes and balled and burlapped sizes up to 18 to 24 inches. We find it worthy of recommendation.

All stock certified under federal supervision for shipment anywhere.

**A. N. PIERSON, INC.** **CROMWELL, CONN.**

Represented by E. D. Robinson, Sales Agent, Wallingford, Conn.

edgment whatsoever. There is absolutely no excuse for this except in the extreme case when shipment is made the day the order is received.

The tardy acknowledgment is more than a nuisance. It leaves the purchaser so much up in the air that he can neither organize his own orders dependent on the purchase nor make any decision about ordering elsewhere and, to make it worse, he cannot give any definite information to his own customers. Orders should be acknowledged within three days, and a really top-notch firm will acknowledge at once.

Many acknowledgments are incomplete. Some carry no information whatsoever, although they may tell when the shipment will be made. If acknowledgment is made item by item, too often it neglects to include the date when shipment will be made. Sometimes the neglect of that information requires a couple of letters, even a telephone call or a telegram, before the order is shipped, for it usually means the shipper is so far behind that he is trying to put you off.

Nearly all acknowledgments are too impersonal; the order is the key-stone of business, yet we treat customers coldly in this respect. Retail landscape orders and large whole-

## LINING-OUT STOCK

	Per 100
Cornus Florida, 1-yr. sdgls. grafting size.....	\$ 6.00
Cotoneaster Dielsiana, 1-yr. sdgls. ....	15.00
Cotoneaster Divaricata, 1-yr. sdgls., 6 to 10 ins.....	10.00
Cotoneaster Horizontalis, 1-yr. sdgls. ....	12.00
Fagus Sylvatica Riversi (Rivers Purple Beech), 2-yr. grafts, 10 to 15 ins.....	125.00
Juniper, Hill's Pyramidiformis, 1-yr. grafts, 8 to 12 ins.....	65.00
Juniper, Keteleeri, 1-yr. grafts, 8 to 12 ins.....	65.00
Juniper, Meyeri, 1-yr. grafts, 8 to 12 ins.....	65.00
Lilac, 2-yr. grafts, in variety, SPECIAL.....	25.00
Magnolia Soulangeana, 2-yr. tr. cuttings, 12 to 18 ins.....	75.00
Prunus Tomentosum, 1-yr. tr., 10 to 18 ins.....	15.00
Thuja Pyramidalis, 1-yr. grafts, 10 to 15 ins.....	50.00
Thuja Pyramidalis, 2-yr. grafts, 18 to 24 ins.....	75.00
Viburnum Burkwoodi, heavy 1-yr. tr. cuttings.....	60.00
Vitex Macrophylla (true), 1-yr. tr.....	25.00
Wistaria Chinensis (blue), 2-yr. grafts.....	50.00
Wistaria Rosea (pink), 2-yr. grafts.....	50.00

### C. HOOGENDOORN

TURNERS ROAD

NEWPORT, R. I.

### THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

**THE WESTMINSTER NURSERIES**  
WESTMINSTER, MD.



Stroudsburg, Pa.

## EVERGREEN SEEDLINGS

	Per 100	Per 1000
<i>Juniperus virginiana</i> , 2-yr., 3 to 6 ins.....	\$ 3.00	\$ 30.00
2-yr., 6 to 10 ins.....	5.50	45.00
<i>Picea excelsa</i> , 2-yr., 4 to 7 ins.....	3.50	25.00
<i>Picea pungens</i> , 2-yr., 2 to 4 ins.....	3.50	25.00
<i>Pinus densiflora</i> , 2-yr., 4 to 7 ins.....	4.00	30.00
<i>Pinus nigra</i> , 2-yr., 3 to 6 ins.....	4.00	30.00
* <i>Pinus sylvestris</i> , 2-yr., 4 to 8 ins.....	3.50	25.00
(This lot green in winter.)		
<i>Taxus cuspidata capitata</i> , 2-yr., 2 to 5 ins.....	12.00	100.00
<i>Thuja occidentalis</i> , 2-yr., 2 to 4 ins.....	3.00	20.00
<i>Thuja occidentalis</i> , 3-yr., 3 to 6 ins.....	4.00	30.00

## EVERGREEN TRANSPLANTS

These transplants are out of field rows, not beds.

<i>Abies douglasii</i> , 4-yr., T, 4 to 7 ins.....	10.00	80.00
<i>Calluna vulgaris</i> , 2-yr., T, 2 to 4 ins.....	7.00	60.00
<i>Picea glauca densata</i> , 6-yr., T, 6 to 10 ins.....	20.00	175.00
<i>Picea glauca densata</i> , 6-yr., TT, 4 to 8 ins.....	17.50	150.00
<i>Retinospora plumosa flavescens</i> , 2-yr., T, 4 to 7 ins.....	25.00	200.00
<i>Taxus baccata repandens</i> , 2-yr., T, 4 to 8 ins.....	25.00	200.00
<i>Taxus baccata repandens</i> , 2-yr., T, 8 to 12 ins.....	32.50	275.00
* <i>Taxus cuspidata</i> , 2-yr., T, 8 to 12 ins.....	39.00	350.00
* <i>Taxus cuspidata</i> , 2-yr., T, 12 to 15 ins.....	35.00	300.00
<i>Taxus cuspidata capitata</i> , 2-yr., T, 8 to 12 ins.....	45.00	400.00
<i>Taxus baccata wymanii</i> , 2-yr., T, 8 to 12 ins.....	32.50	275.00
<i>Taxus intermedia</i> (Slow strain), 2-yr., T, 6 to 12 ins.....	35.00	300.00
<i>Taxus intermedia</i> (Fast strain), 2-yr., T, 6 to 12 ins.....	35.00	300.00
<i>Taxus intermedia</i> (Vase type), 4-yr., TT, 6 to 10 ins.....	40.00	350.00
<i>Taxus media andersonii</i> , 2-yr., T, 8 to 12 ins.....	25.00	200.00
<i>Taxus media andersonii</i> , 2-yr., T, 12 to 15 ins.....	32.50	275.00
<i>Taxus media brownii</i> —This is the compact, slow-growing, hardy strain, not the Eastern strain.		
<i>Taxus media brownii</i> , 2-yr., T, 8 to 9 ins.....	25.00	200.00
<i>Taxus media brownii</i> , 2-yr., T, 9 to 12 ins.....	32.50	275.00
<i>Taxus media brownii</i> , 4-yr., TT, 6 to 8 ins.....	40.00	350.00
<i>Taxus media hicksii</i> , 2-yr., T, 8 to 12 ins.....	32.50	275.00
<i>Taxus media kelseyi</i> , 2-yr., T, 6 to 12 ins.....	32.50	275.00
<i>Taxus media pyramidalis</i> , 2-yr., T, 6 to 12 ins.....	30.00	250.00
<i>Taxus media wardii</i> , 2-yr., T, 6 to 12 ins.....	35.00	300.00
<i>Thuja occ. hoveyi</i> , 2-yr., T, 6 to 10 ins.....	25.00	200.00
<i>Thuja occ. recurva nana</i> , 2-yr., T, 5 to 8 ins.....	25.00	200.00
<i>Thuja occ. woodwardii</i> , 2-yr., T, 6 to 9 ins.....	30.00	250.00

## DECIDUOUS LINERS

* <i>Acer palmatum</i> , 1-yr., S, 3 to 6 ins.....	4.00	30.00
* <i>Castanea mollissima</i> , 1-yr., S, 6 to 12 ins.....	9.00	75.00
<i>Castanea mollissima</i> , 1-yr., S, 12 to 18 ins.....	16.00	140.00
<i>Fagus americana</i> , 2-yr., S, 12 to 18 ins.....	10.00	85.00
<i>Ginkgo biloba</i> , 2-yr., S, 6 to 12 ins.....	7.50	60.00
<i>Larix leptolepis</i> , 2-yr., S, 6 to 10 ins.....	4.50	35.00
<i>Larix leptolepis</i> , 2-yr., S, 10 to 15 ins.....	7.50	60.00
<i>Populus nigra</i> , 1-yr., R.C., 2 to 3 ft.....	6.00	50.00
<i>Populus nigra</i> , 1-yr., R.C., 3 to 4 ft.....	8.50	75.00
<i>Populus nigra</i> , 1-yr., R.C., 4 to 6 ft.....	11.50	100.00
<i>Salix salamonii</i> , R.C., 3 to 4 ft.....	8.50	70.00
* <i>Ampelopsis tricuspidata</i> , 1-yr., S, 6 to 12 ins.....	4.00	30.00
<i>Aralia pentaphylla</i> , R.C., 6 to 12 ins.....	7.00	60.00
<i>Azalea malvatica Kathleen</i> , TT, 5 to 8 ins.....	32.50	275.00
<i>Azalea Yodogawa</i> , TT, 5 to 8 ins.....	27.50	225.00
<i>Azalea yuykiana Beethoven</i> , TT, 5 to 8 ins.....	35.00	300.00
<i>Berberis thunbergii</i> , 2-yr., S, 6 to 12 ins.....	3.00	20.00
<i>Cornus stolonifera lutea</i> , R.C., 10 to 15 ins.....	6.00	50.00
<i>Euonymus radicans vegetus</i> , 1-yr., T, R.C., 6 to 9 ins.....	15.00	135.00
<i>Euonymus sieboldianus</i> , 1-yr., R.C., T, 8 to 12 ins.....	13.50	120.00
<i>Forseythia spectabilis</i> , R.C., 8 to 12 ins.....	3.50	25.00
* <i>Forseythia spectabilis</i> , R.C., 12 to 18 ins.....	5.00	40.00
<i>Forseythia spectabilis</i> , R.C., 10 to 24 ins.....	7.50	60.00
<i>Ligustrum ibota</i> , 1-yr., S, 6 to 12 ins.....	2.50	15.00
<i>Lonicera morrowi</i> , Red-fruited, R.C., 12 to 24 ins.....	6.00	50.00
<i>Lonicera morrowi</i> , Yellow-fruited, R.C., 12 to 24 ins.....	6.00	50.00
<i>Philadelphus virginialis</i> , R.C., 10 to 15 ins.....	10.00	85.00
<i>Rosa rugosa</i> , 1-yr., S, 6 to 12 ins.....	3.50	25.00
<i>Rosa wichurana</i> , 1-yr., S, 6 to 12 ins.....	3.50	25.00
<i>Spiraea vanhouttei</i> , R.C., 12 to 18 ins.....	5.00	40.00
<i>Symphoricarpos chenaultii</i> , R.C., 12 to 18 ins.....	4.50	35.00
<i>Viburnum lentago</i> , 1-yr., S, 6 to 12 ins.....	4.00	30.00

\*Less 10 per cent in lots of 5000 or more.

**FAIRVIEW EVERGREEN NURSERIES,**  
FAIRVIEW, Erie Co., PA.

## LINING-OUT STOCK

in wide assortment

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

## DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

## BUXUS SEMPERVIRENS

12 to 15 ins., XXX, B&B  
\$10.00 per 10; \$90.00 per 100  
No Boxing.

**EASTERN SHORE NURSERIES, Inc.**  
EASTON, MARYLAND

## EVERGREENS and SHRUBS

ROOTED CUTTINGS  
and  
TRANSPLANTS

Write for complete list.

## ESHAM'S NURSERIES

Frankford, Del.

## EVERGREEN LINERS

*Taxus—Ilex Convexa—Hemlock*  
Heavy transplants and rooted cuttings.  
Trade list mailed on request.

## BROOKFIELD GARDENS

RT. 6 DELAWARE, N. J.

sale orders really should be acknowledged by personal letter. The personal touch is an absolute necessity for business building.

The mail-order house that handles many small orders may have to use the post-card system, but if it does the card should carry the name of some person to whom the customer can write should he wish to. Any system that "loses" its orders while in process is guaranteeing that the firm will lose more money in dissatisfied customers than it will save by the short cuts. Personal interest will get you business; impersonality will lose it.

E. S. H.

## INDIANA GROUP FETES GEORGE MOYER AT 90.

Following a precedent established a few years ago, the North Central Indiana Association of Nurserymen helped George N. Moyer, Laketon Nurseries, Laketon, celebrate his ninetieth birthday December 8, and the group elected officers for the ensuing year. Earl Moldenhauer was elected to serve an indefinite term as president, and John W. Moyer was elected secretary.

Assembling at the Moyer home, the nurserymen presented George N. Moyer with a large basket of white and yellow chrysanthemums, and everyone went to the United Brethren church for a chicken dinner served by the Sunday school class of one of the Moyer girls. An unmatched record in the annals of the church activities is the fact that Mr. Moyer has served as superintendent of the Sunday school for forty-two years. During dinner, Mr. Rogers, an auctioneer at Wabash, entertained with jokes, songs and episodes concerning his auctioneer training.

After dinner the group returned to the Moyer home, and a business session was conducted by the nursery association members. Proceedings were suspended so the guest of honor might make a few remarks.

Labeling his talk "A Lot for a Little" he spoke of conditions affecting the nursery business in the 1880's in contrast to nursery operations and prices of today. He announced that his first venture was in the strawberry business when he had one acre of plants and subsequently dreamed of huge profits, only to discover that he had planted all pistillate varieties. His next move was to produce fruit trees. He later developed methods of production and sales outlets that enabled him to grow 35,000 apple and cherry trees a year. Mentioning grafting and budding, he



See our Representative at the Convention  
or write for prices on:

Flowering Shrubs  
Hedge Plants  
Popular Evergreens  
Roses, etc.

*Surplus List ready. Ask for copy  
if you have not received your copy.*

**THE HUNTSVILLE WHOLESALE NURSERIES, Inc.**  
HUNTSVILLE, ALABAMA

said that his first endeavors had to do with piece-root grafting and were followed later by whole-root grafting processes. Meeting many difficulties of the era, Mr. Moyer was forced to import much of his understock from France, and he continued this practice until he discovered the possibilities in budding 2-year seedlings in the field. He found that the latter method produced more thrifty and better shaped trees and gave them a heavier caliper. Many of the bearing orchards of northern Indiana still produce fruit from trees grown by Mr. Moyer. Moyer's Prize apple, which he developed, is said to be the forerunner of the Winter Banana and Golden Delicious varieties.

In the 1880's Mr. Moyer considered himself fortunate in being able to retail apple trees for a top price of 35 cents each, while 2 and 3-year cherry trees drew a top price of 60 cents and 65 cents each. In those days railroads were not staffed adequately to handle boxes of nursery stock, and nursery personnel was often obliged to help train crews load crates onto freight cars; occasionally, nurserymen had to accompany shipments to destinations and to assist trainmen in unloading.

Upon completion of Mr. Moyer's

## BROAD-LEAVED EVERGREENS

Well grown, heavy, well filled.

Various varieties of:

Berberis  
Elaeagnus  
Ilex  
Jasminum

Laurocerasus  
Ligustrum  
Nandina  
Pyracantha

### CONIFERS

Baker, Globe, Pyramidal Arborvitae, Pfitzer Juniper

Your List Gladly Quoted.

**LINDLEY NURSERIES, Inc.**

Greensboro, N. C.

## TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

**VERKADE'S NURSERIES**

NEW LONDON, CONN.

"True Varieties" Is Not a Boast... It's A HABIT!

### ROSEBUSHES

Licensed Grower,  
All-America  
Introductions.

Refrigeration.

AVOID HEELYARD HAVOC.

**ARP**

**NURSERY CO.**

P. O. Box 867-D TYLER, TEXAS

### PECAN TREES

WALNUT, FIG  
PERSIMMON

Wholesale Catalog.

GET YOURS FIELD-FRESH AND FREEZE-FREE.

## HEAVY FIELD LINERS

### SPRING, 1951

1,000,000 transplanted liners; 2, 3 and 4 years in field beds. X indicates times transplanted. Not less than 25 of a variety at the 100 rate. Shipment by express only. Terms: Cash with order and packing free; otherwise, 1/3 deposit with order and balance C.O.D. and packing charged. Japanese beetle certification upon request.

	100 rate each
<i>Azalea mollis</i> , 10 to 15 ins., XXX, 3-yr. . . . .	\$0.90
<i>Azalea kumpferi</i> , 9 to 12 ins., XXX, 3-yr. . . . .	.65
<i>Chamaecyparis lawsoniana</i> , 8 to 12 ins., 2-yr. . . . .	.10
<i>Chamaecyparis laws. pendula</i> , 10 to 15 ins., 2-yr. . . . .	.75
<i>Chamaecyparis laws. allumi</i> , 10 to 15 ins., XX, 2-yr. . . . .	.32
<i>Chamaecyparis filifera aurea</i> , 6 to 12 ins., X, 2-yr. . . . .	.25
<i>Cytisus scoparius</i> , X, 3-yr. . . . .	.20
<i>Euonymus carrierei</i> , 6 to 12 ins., XX, 2-yr. . . . .	.22
<i>Euonymus coloratus</i> , 6 to 12 ins., XX, 2-yr. . . . .	.22
<i>Euonymus fortunei erectus</i> , 8 to 15 ins., XX, 2-yr. . . . .	.20
12 to 18 ins., XXX, 3-yr. . . . .	.35
<i>Euonymus vegetus</i> , 6 to 8 ins., X, 2-yr. . . . .	.20
<i>Euonymus vegetus</i> , 8 to 15 ins., XX, 2-yr. . . . .	.25
<i>Ilex crenata</i> , 4 to 6 ins., XX, 2-yr. . . . .	.22
6 to 10 ins., XX, 3-yr. . . . .	.35
<i>Ilex crenata bullata</i> , 4 to 6 ins., XX, 2-yr. . . . .	.20
6 to 8 ins., XX, 2-yr. . . . .	.25
<i>Ilex glabra</i> , 6 to 10 ins., XX, 2-yr. . . . .	.30
XXX, 12 to 15 ins., 4-yr. . . . .	1.00
<i>Ilex rotundifolia</i> , 4 to 6 ins., XX, 2-yr. . . . .	.20
6 to 8 ins., XX, 2-yr. . . . .	.25
<i>Juniper, Andorra</i> , 6 to 9 ins., XX, 2-yr. . . . .	.25
9 to 12 ins., XX, 2-yr. . . . .	.35
<i>Juniperus can. aurea</i> , 5 to 8 ins., XX, 2-yr. . . . .	.25
<i>Juniperus glauca hetzi</i> , 10 to 15 ins., XX, 2-yr. . . . .	.35
12 to 18 ins., XXX, 3-yr. . . . .	.50
<i>Juniperus gl. hetzi</i> , 8 to 10 ins., X, 2-yr. . . . .	.25
<i>Koeleria paniculata</i> , 15 to 20 ins., 2-yr. . . . .	.25
<i>Larix europaea</i> , 12 to 24 ins., 3-yr. . . . .	.18
<i>Leucothoe catesbaei</i> , 4 to 6 ins., XX, 3-yr. . . . .	.25
6 to 10 ins., XX, 3-yr. . . . .	.35
<i>Picea excelsa</i> , 4 to 10 ins., 2-yr. . . . .	.10
<i>Pieris japonica</i> , 6 to 8 ins., XX, 2-yr. . . . .	.45
<i>Pinus mughus</i> , 2 to 3 ins., 2-yr. . . . .	.08
<i>Pinus mughus</i> , 3 to 6 ins., X, 3-yr. . . . .	.15
<i>Pinus nigra</i> , 6 to 10 ins., 2-yr. . . . .	.10
<i>Pinus sylvestris</i> , 4 to 8 ins., 2-yr. . . . .	.08
<i>Pinus strobus</i> , 4 to 8 ins., 2-yr. . . . .	.08
<i>Pyraeantha lalandi</i> , 6 to 12 ins., X, 2-yr. . . . .	.20
<i>Quercus palustris</i> , 6 to 12 ins., 2-yr. . . . .	.10
<i>Quercus palustris</i> , 12 to 24 ins., 2-yr. . . . .	.15
<i>Rhododendron hybrid</i> , 5 to 8 ins., XXX, 3-yr. . . . .	.55
<i>Rhododendron hybrid</i> , 8 to 12 ins., XXX, 3-yr. . . . .	.85
<i>Sophora japonica</i> , 1-yr. adlg. . . . .	.08
<i>Taxus capitata</i> , 6 to 8 ins., XX, 3-yr. . . . .	.25
<i>Taxus cuspidata</i> , 6 to 10 ins., XX, 2-yr. . . . .	.25
10 to 15 ins., XX, 3-yr. . . . .	.35
<i>Taxus media hatfieldi</i> , 4 to 6 ins., XX, 2-yr. . . . .	.18
6 to 8 ins., XX, 2-yr. . . . .	.25
<i>Taxus media hicksii</i> , 4 to 6 ins., XX, 2-yr. . . . .	.18
6 to 8 ins., XX, 2-yr. . . . .	.25
<i>Thuja occidentalis</i> , adlg., 4 to 6 ins., 2-yr. . . . .	.10
6 to 12 ins., XX, 3-yr. . . . .	.20
<i>Thuja occ. elegantissima lutea</i> , 6 to 8 ins., XX, 2-yr. . . . .	.25
<i>Thuja occ. globosa</i> , XX, 6 to 8 ins., 2-yr. . . . .	.25
<i>Thuja occ. globosa nana</i> , 4 to 6 ins., XX, 2-yr. . . . .	.25
<i>Thuja orientalis</i> , 6 to 12 ins., 2-yr. . . . .	.10
<i>Tsuga canadensis</i> , 6 to 8 ins., XX, 3-yr. . . . .	.20
8 to 12 ins., XX, 3-yr. . . . .	.35
<i>Viburnum opulus</i> , 12 to 24 ins., 2-yr. . . . .	.18

Please order in accordance with our above terms. No Sunday business.

## PALLACK BROS. NURSERIES, Inc.

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31 mi. north of Pittsburgh, Pa.)  
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R.F.D. 1, HARMONY, PA.

talk, the business session was resumed and new officers were elected. Robert Hoffman, president of the organization since its inception, had asked to be relieved of his duties inasmuch as he has similar responsibilities as vice-president of the Indiana Association of Nurserymen. It was

Eight charter members of the group were assessed \$1 each to create a nucleus for a treasury. The fund was assigned to Secretary Moyer, who was authorized to file the names of the charter members with similar groups throughout the state. Membership in the association has been limited so that the group may meet in homes, if necessary, and so that driving distances may remain at a minimum.

Trade members present at the celebration were Mr. and Mrs. Lloyd Hainlen and their son Larry, Hainlen Nursery, Converse; Mr. and Mrs. Raymond Schmidt, Schmidt Landscape Service, Marion; Earl and Mrs. C. J. Moldenhauer, C. J. Moldenhauer's Nursery, Huntington; Robert Hoffman, Hoffman Nursery, Wabash; Byron S. Traster, Traster Nursery, Fairmount; John W. Moyer, Laketon Nurseries, Laketon; Mr. and Mrs. Ray L. Price and Lowell and Maureen Moore, Price Nurseries, Plymouth, and Alfred Roth and Fred Scripture, Academy Flower Shop, Fairmount.

The Prices announced that they were leaving by plane for a trip and a few weeks' stay in Bermuda, where they hoped to escape some of the rigors of an Indiana winter and where they could enjoy a well earned rest. The Moores were to be in charge of the business while the Prices vacationed.

Byron S. Traster.

### ASK RESEARCH NURSERY.

A subcommittee of the South Alabama Nurserymen's Association and the horticulture and nursery committee of the Mobile chamber of commerce met November 28 at Mobile, Ala., with A. B. Jeffries, county board chairman, to discuss means of obtaining a suitable site in the city for the establishment of a research nursery. The group hopes to start a research nursery for the study of insects and diseases of ornamental plants.

### MARYLAND APPOINTMENT.

Prof. Paul E. Nystrom, associate director of extension at the University of Maryland, was recently appointed as assistant to Dr. H. C.

## SHADE TREES

Ash, American White,	Each	Per 10
6 to 8 ft. . . . .	\$2.25	\$20.00
8 to 10 ft. . . . .	2.75	25.00
10 to 12 ft. . . . .	3.50	32.50
<i>Catalpa speciosa</i> , 6 to 8 ft. . . . .	1.50	12.50
<i>Elm, American</i> , 6 to 8 ft. . . . .	1.60	14.00
8 to 10 ft. . . . .	2.00	17.50
10 to 12 ft. . . . .	2.50	22.50
<i>Elm, Chinese</i> , 6 to 8 ft. . . . .	1.10	10.00
8 to 10 ft. . . . .	1.60	14.00
10 to 12 ft. . . . .	2.00	17.50
<i>Flowering Crab, Eleyi</i> , 3 to 4 ft. . . . .	.75	6.50
4 to 6 ft. . . . .	1.00	9.00
<i>Hackberry</i> , 6 to 8 ft. . . . .	1.75	16.00
8 to 10 ft. . . . .	2.50	22.50
10 to 12 ft. . . . .	3.00	27.50
<i>Linden, American</i> , 8 to 10 ft. . . . .	3.00	27.50
10 to 12 ft. . . . .	4.00	37.50
<i>Maple, Schwedler</i> , 8 to 6 ft. . . . .	2.75	25.00
6 to 8 ft. . . . .	3.75	35.00
<i>Maple, Silver</i> , 8 to 6 ft. . . . .	1.10	10.00
6 to 8 ft. . . . .	1.60	14.00
<i>Oak, White</i> , 8 to 8 ft. . . . .	3.25	30.00
8 to 10 ft. . . . .	4.00	37.50
<i>Oak, Willow</i> , 8 to 10 ft. . . . .	4.00	37.50
<i>Plane Tree, Oriental</i> , 6 to 8 ft. . . . .	2.25	20.00
8 to 10 ft. . . . .	2.75	25.00
10 to 12 ft. . . . .	3.50	32.50
<i>Poplar, Lombardy</i> , 6 to 8 ft. . . . .	.85	7.50
8 to 10 ft. . . . .	1.20	10.00
10 to 12 ft. . . . .	1.60	14.00
<i>Poplar, Holsanna</i> , 6 to 8 ft. . . . .	1.60	14.00
8 to 10 ft. . . . .	2.00	17.50
<i>Texas Umbrella</i> , 4 to 5 ft. . . . .	1.35	12.00
5 to 6 ft. . . . .	1.75	15.00
6 to 8 ft. . . . .	2.00	17.50
<i>Tulip Tree</i> , 6 to 8 ft. . . . .	2.25	20.00

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*Azaleas*  
*Boxwoods*  
*Hollies*  
*American Pyramidal Arborvitae*  
*Globe Arborvitae*  
*Taxus cuspidata capitata*  
*Taxus hicksii*  
*Rhododendrons*

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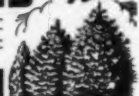
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GRAPES		Per 100	Per 1000
Concord, 2-1		\$10.00	\$ 80.00
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Niagara, 1-1		9.00	70.00
Catawba, 2-1		11.00	90.00
Catawba, 1-1		9.00	70.00
Fredonia, 2-1		11.00	90.00
Fredonia, 1-1		9.00	70.00
Delaware, 2-1		14.00	120.00
Delaware, 1-1		11.00	90.00
Van Buren, 2-1		22.00	...
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Sheridan, 1-1		11.00	...
BLACKBERRIES			
Eldorado, transplants		6.50	55.00
Eldorado, No. 1, r.c.		5.00	40.00
Alfred, transplants		6.50	55.00
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BOYSENBERRIES AND DEWBERRIES			
Boysenberry (Common), No. 1 tips		5.50	45.00
Boysenberry (Thornless), No. 1 tips		5.50	45.00
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Wildier, 3-yr. heavy		15.00	130.00
Wildier, 2-yr. No. 1		12.00	100.00
Wildier, 1-yr. No. 1		7.00	60.00
Red Lake, 3-yr. No. 1		16.00	...
Red Lake, 1-yr. No. 1		12.00	...
GOOSEBERRIES			
Downing, 2-yr. No. 1		25.00	...
Houghton, 2-yr. No. 1		25.00	...
Champion, 2-yr. No. 1		25.00	...
BLUEBERRIES			
Prices of Hancock, Rubel, Jersey			
	Each	Per 10	Per 100
2-yr., 9 to 12 ins., bearing age	\$0.40	\$3.50	\$30.00
3-yr., 12 to 18 ins., bearing age	.55	5.00	45.00
4-yr., 18 to 24 ins., bearing age	.75	7.00	65.00
RED RASPBERRIES		Per 100	Per 1000
Latham, transplants		\$ 7.50	...
Latham, 1-yr. No. 1		6.00	...
Chief, transplants		7.00	\$ 60.00
Chief, 1-yr. No. 1		5.50	45.00
Sunrise, transplants		7.00	60.00
Sunrise, 1-yr. No. 1		5.50	45.00
Indian Summer, transplants		8.00	70.00
Indian Summer, 1-yr. No. 1		6.50	55.00
St. Regis, transplants		7.00	60.00
St. Regis, 1-yr. No. 1		5.50	45.00
BLACK RASPBERRIES			
Cumberland, trans., No. 1		8.00	70.00
Cumberland, trans., No. 2		6.50	55.00
Cumberland, tips, No. 1		4.50	35.00
Logan, trans., No. 1		8.00	70.00
Logan, trans., No. 2		6.50	55.00
Logan, tips, No. 1		4.50	35.00
Morrison, trans., No. 1		9.00	80.00
Morrison, trans., No. 2		7.50	65.00
Morrison, tips, No. 1		5.00	40.00
PURPLE RASPBERRIES			
Sodus, No. 1, tips		5.50	45.00
ASPARAGUS			
Paradise and Washington			
3-yr. heavy		4.00	30.00
2-yr. No. 1		2.50	18.00
1-yr. No. 1		1.70	12.00
VICTORIA RHUBARB			
Whole Roots			
1 1/2-in. and up		3.00	75.00
1 to 1 1/2-in.		5.50	50.00
3/4 to 1-in.		4.00	35.00
1/2 to 3/4-in.		3.00	25.00
RED RHUBARB			
Canada Red, No. 1 divisions		40.00	350.00
McDonald, No. 1 divisions		30.00	250.00
HORSE-RADISH			
Cuttings, 4 to 5 ins.		3.00	20.00
Whole Roots		5.00	40.00

Write for Special Quotations on Quantity Lots.

Byrd, president. When Dr. William B. Kemp retires June 30, 1951, Professor Nystrom will become director of instruction in the college of agriculture.

Dr. T. B. Symons, who recently retired as dean of the college of agriculture and director of extension service, is vacationing in Europe with his wife.

### PATHOLOGISTS SHIFT.

Dr. David Davis has joined the staff of the Connecticut agricultural experiment station's plant pathology department, replacing Dr. Richard A. Chapman, who resigned the post to become associate plant pathologist at the Kentucky agricultural experiment station.

Dr. Davis joins the crew of station researchers working on the chemotherapy project. He will concern himself especially with its application as a control for the Dutch elm disease.

HAVING purchased ground and buildings, William A. Miller, Alburger street, Philadelphia 11, Pa., intends to turn his hobby of raising azaleas and rhododendrons into a nursery business.

## VIBURNUM BURKWOODI

Reduced Prices to the Trade.

Field-grown Plants

	Per 10	Per 100
18 to 24 ins., BR.	\$10.00	\$ 85.00
18 to 24 ins., B&B	13.50	120.00
2 to 3 ft., B&B	20.00	175.00
3 to 4 ft., B&B	30.00	250.00

Packing at cost

For Lining Out—Own-root Plants			
6 to 9 ins.	Per	Per	Per
	in plant	10	100
bands	\$3.00	\$25.00	\$225.00

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We offer a small quantity of *Juniperus Burki* and *Keteleeri* in 10 and 12-year-old specimens. Extra-heavy, 5 to 6 and 6 to 8 ft.; also *Juniperus Stricta*, 5 to 6 ft., well sheared and many times transplanted.

Koster Juniper, spreaders, 4 to 6 ft.

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100 Liquidambar, 2 1/4 to 4-in. caliper.

400 Ash, 1 1/2 to 2-in. caliper.

10,000 Apple and Pear trees, 2, 3 and 4-year-old; 1-year

Peach, commercial varieties.

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**WONDERLAND NURSERIES**  
Ellerson, Va.



# Coming Events

## MEETING CALENDAR.

January 2 to 5, 1951, Indiana Association of Nurserymen, Purdue University, West Lafayette.

January 3 to 17, short course for landscape nurserymen, Virginia Polytechnic Institute, Blacksburg.

January 3 to 5, eastern regional convention, Hotel Statler, New York.

January 4, New York State Nurserymen's Association, Hotel Statler, New York city.

January 4, Long Island Nurserymen's Association, Hotel Statler, New York.

January 4 and 5, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 8, Maryland Nurserymen's Association, Lord Baltimore hotel, Baltimore.

January 8, Idaho Nurserymen's Association, Benson hotel, Pocatello.

January 8, Missouri State Nurserymen's Association, Hotel Jefferson, St. Louis.

January 8, Kansas Association of Nurserymen, Hotel Jefferson, St. Louis.

January 9 and 10, Western Association of Nurserymen, Hotel Jefferson, St. Louis.

January 10 to 12, short course for nurserymen, North Carolina State College, Raleigh.

January 11, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 11 to 13, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 15 and 16, arborists' school, Cornell University, Ithaca, N. Y.

January 15, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 15, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 15, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 16 to 18, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 22 to 24, short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, O.

January 24 to 26, Michigan Association of Nurserymen, Hotel Pantlind, Grand Rapids.

January 25 and 26, Ohio Nurserymen's Association, Neil House, Columbus.

January 26, Western New York Nurserymen's Association, Rochester.

January 28 to 30, Virginia Nurserymen's Association, Hotel John Marshall, Richmond.

January 29 and 30, Kentucky State Nurserymen's Association, Seelbach hotel, Louisville.

January 31, short course for nurserymen, University of Maryland, College Park.

January 31 and February 1, Pennsylvania Nurserymen's Association, Roosevelt hotel, Pittsburgh.

February 1, Oregon Association of Nurserymen, Georgian room, Heathman hotel, Portland.

February 1 and 2, Tennessee State

Nurserymen's Association, Andrew Jackson hotel, Nashville.

February 2, New Jersey Association of Nurserymen, Trenton.

February 6 to 8, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

February 9, West Virginia Nurserymen's Association, Gauley Bridge.

February 14 to 16, Midwestern chapter of the National Shade Tree Conference, Hotel La Salle, Chicago.

February 20, Rhode Island Nurserymen's Association, Johnson's Hummock's, Providence.

March 22 and 23, Southern Shade Tree Conference, Palm Beach, Fla.

## SPEAKERS FOR EASTERN MEETING AT NEW YORK.

The informal opening of the annual 3-day convention of eastern nurserymen, January 3 to 5 at the Hotel Statler, New York, will be the

cocktail party at 6 p. m. January 3 in Penn Top South. All those attending the convention are invited to this get-together and to the general sessions of the various participation organizations, the programs for which are described below.

The formal program will begin Thursday morning at 9:30 with a meeting of the New York State Nurserymen's Association, also in Penn Top South. Dr. A. B. Buchholz, director, will review the activities of the state bureau of plant industry; Halsey B. Knapp, director, will tell of recent developments at the Long Island Agricultural and Technical Institute, Farmingdale, N. Y., and A. J. Heinecke, director, will describe experimental work for nurserymen at the state agricultural experiment station, Geneva. Dr. A. M. S. Pridham, department of ornamental horticulture, Cornell University, Ithaca, will speak on "The Defoliation of Nursery Stock," and R. L. Holmes, Jackson & Per-

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Write or wire Hotel Jefferson for room reservations. A block of rooms has been reserved.

Come and have a good time—interesting speakers and good entertainment.

MISSOURI STATE NURSERYMEN'S ASSOCIATION  
January 8, 1951

WESTERN ASSOCIATION OF NURSERYMEN  
January 9 and 10, 1951

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August-flowering—Large Double Blooms—Frost-resistant—Nice Long Stems—Excellent for Cutting—Rich, Dark Foliage—Extremely Hardy—Compact, Bushy Plants—Vigorous and Sturdy—Lavish Producers—Disease-resistant—Height 2½ to 3 feet.

**GENERAL MARSHALL**—This mum absolutely defies description. Rich harmony of deep old rose, purple and gold; petals slightly incurved, making them appear edged with gold.

**GENERAL MacARTHUR**—A deluge of coppery-red flowers that seem to glow on dull days, as in the sunlight, like new shiny copper pennies.

**GENERAL BRADLEY**—Exquisite blooms of a superb blending of lovely apricot, seashell-pink and buff in clusters on long stems.

**STRONG ROOTED CUTTINGS**—\$30.00 per 100; \$250.00 per 1000

**POT or BANDED PLANTS**—\$6.00 per doz.; \$40.00 per 100

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kins Co., Newark, will explain about New York state disability insurance.

The New Jersey Association of Nurserymen will meet in Conference room 2 at 10:30 a. m.

Paul E. Belcher, vice-president of the First National bank of Akron, O., will address the convention on the subject "Economic Trends" at luncheon in the Sky Top.

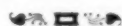
At 2 p. m. in the Penn Top members of the National Landscape Nurserymen's Association will assemble to hear Dr. J. R. Bracken, department of landscape horticulture, Pennsylvania State College, speak on "Planting Design Around Modern and Ranch Style Homes," which he will illustrate with colored slides. A panel discussion on this subject will be held by Dr. Donald Wyman, of the Arnold Arboretum, Jamaica Plain, Mass., and Nurserymen Douglas Footit and Owen Schmidt. A talk will be given by Philip A. Robinson, landscape architect and planner for the Public Housing Administration, and the topic "Nursery Stock Shortages" will be discussed by another speaker, not yet announced.

In response to the demand for an informal discussion of plant materials, as was held at last year's convention, a similar open forum will be offered from 8 to 11 p. m., Thursday. Dr. Wyman will serve as moderator, and members of the panel will be Dr. Charles H. Connors, Rutgers University; Prof. Kenneth Bradley, University of Connecticut; R. P. Meahl, Pennsylvania State College, and Dr. A. M. S. Pridham, Cornell University.

Following a meeting of the delegates, Friday morning, there will be a general meeting of region 1 of the American Association of Nurserymen in Penn Top at 10 o'clock. The

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**SELLING OUT.** Specimens 26 x 16 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

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## WANT LIST

We are interested in securing the following list of Seeds and Hardwood Cuttings for delivery as soon as possible. When quoting please advise when delivery can be made.

Quote Cuttings either made up (7-inch) or in the switch. Samples will be requested on Cuttings before order is final because a recent freeze damaged some wood.

### SEEDS

5 to 50 lbs.	<i>Berberis Atropurpurea</i> , clean seeds
100 lbs.	<i>Berberis Thunbergii</i> , as gathered
50 lbs.	<i>Celtis Occidentalis</i> , clean seeds
30 lbs.	<i>Celastrus Orbiculatus</i> , clean seeds
5 lbs.	<i>Cydonia Japonica</i> , clean seeds
15 lbs.	<i>Cedrus Deodora</i> , clean seeds
5 lbs.	<i>Cedrus Atlantica Glauca</i> , clean seeds
100 lbs.	<i>English Walnuts</i> , clean seeds
50 to 100 lbs.	<i>Ginkgo Biloba</i> , clean seeds
100 lbs.	<i>Juglans Cordiformis</i> (Jap. Walnuts), clean seeds
15 lbs.	<i>Laburnum Vulgare</i> , clean seeds
20 lbs.	<i>Laurocerasus Caroliniana</i> (Cherry Laurel), clean seeds
5 lbs.	<i>Mahonia Aquifolium</i> , clean seeds
5 lbs.	<i>Syringa Josikaea</i> , clean seeds
50 lbs.	<i>Taxodium Distichum</i> , clean seeds
50 lbs.	<i>Wistaria Sinensis</i> (Chinese Purple), clean seeds
50 lbs.	<i>Catalpa Speciosa</i> (Western Catalpa), clean seeds
100 lbs.	<i>Cercis Canadensis</i> (Red Bud), clean seeds
50 lbs.	<i>Gleditsia Triacanthos</i> (Honey Locust), clean seeds
50 lbs.	<i>Hamamelis Virginiana</i> (Common Witch Hazel), clean seeds
5 lbs.	<i>Liquidamber Styraciflua</i> (Sweet Gum), clean seeds
50 lbs.	<i>Magnolia Grandiflora</i> (Southern Magnolia), clean seeds
100 lbs.	<i>Rhus Canadensis</i> (Fragrant Sumac), clean seeds
50 lbs.	<i>Rosa Multiflora</i> (Japanese Rose), Thorny Type, clean seeds
50 lbs.	<i>Corylus Americana</i> (American Hazelnut), clean seeds
50 lbs.	<i>Fraxinus Lanceolata</i> (Green Ash), clean seeds
50 lbs.	<i>Fraxinus Americana</i> (White Ash), clean seeds
50 lbs.	<i>Cherry Laurel</i> , berries or clean seeds
50 lbs.	<i>Ligustrum Lucidum</i> , berries or clean seeds
50 lbs.	<i>Ligustrum Japonicum</i> , berries or clean seeds
25 lbs.	<i>Elaeagnus Reflexa</i> , berries or clean seeds
25 lbs.	<i>Elaeagnus Fruitlandi</i> , berries or clean seeds
50 lbs.	<i>Texas Umbrella</i> (True Type), as gathered
50 to 100 lbs.	<i>Nandina</i> , berries
10 lbs.	<i>Vitex Macrophylla</i> , as gathered
5 to 10 lbs.	<i>Vitex Agnus-castus</i> , as gathered

### HARDWOOD CUTTINGS

15,000	Red Crape Myrtle
15,000	Pink Crape Myrtle
50,000	<i>Abelia Grandiflora</i>

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morning session will be devoted to talks on publicity and advertising and the afternoon to talks by officers of the A. A. N., as described in the preceding issue. Particular attention will be given to new social security coverage of nursery employees.

### OKLAHOMA PROGRAM.

The 2-day convention of the Oklahoma State Nurserymen's Association will be held January 4 and 5 at Oklahoma City, with business sessions at the Biltmore hotel.

An invocation by Dr. John R. Abernathy will open the Thursday morning session in Parlor A. An address of welcome by J. W. Richardson, president of Oklahoma City chamber of commerce, will be followed by an address by Richard R. Bloss, Jr., association president, and the report of Ted Tetrick, secretary-treasurer.

During luncheon in the Mirror room, Hon. Morton Rutherford, of Tulsa, guest speaker, will talk on "Citizenship." Ladies are especially invited to the luncheon.

At the afternoon session, a "Plant America" program will be directed by Mario Sanseverino, vice-president. Reports on business and growing conditions in the southwest will be given by Frank Sneed, Harold Crawford, J. B. Baker, Jr., Don King, and Steve Verhalen.

J. B. Baker, Jr., director for region 5, will present plans for the 1951 convention of the A. A. N., and Curtis Porterfield, administrative assistant, will talk on the Washington scene and the A. A. N. The meeting will conclude with a discussion on new and special varieties of ornamentals, fruits and nuts, led by C. E. Garee and A. G. Hirschi.

Entertainment for Thursday night will include a buffet dinner at Beverly's Drive Inn restaurant, followed by dancing.

Oklahoma-Arkansas chapter members of the A. A. N. will meet Friday morning before the general convention reconvenes. Friday morning's business session will begin with a talk on "Nurseryman Cooperation with Great Plains Agricultural Council" by H. P. Rigdon, extension forester, Stillwater, Okla. A discussion on "Rose Diseases and Varieties" will be led by Dr. E. W. Lyle, plant pathologist for Texas Rose Research Foundation, Tyler.

Two field demonstrations will be on the program Friday afternoon. A big tree-moving exhibition will be conducted at the Classen Co., 500 North May street, with a Williams



& Harvey Nurseries' tree mover, and a planting demonstration will be held at Sneed Nursery Co., 3501 West Reno street, with a Hart Bros., planting machine.

### IDAHO-UTAH MEETING AND LANDSCAPE SCHOOLS.

A joint meeting of the Idaho Nurserymen's Association and the Utah Association of Nurserymen will be held January 8 at the Benson hotel, Pocatello, Ida. In the evening the Utah-Idaho chapter of the American Association of Nurserymen will hold a dinner meeting.

The following two days a landscape and garden school will be conducted at the Bannock hotel, Pocatello, by local nurserymen, landscape gardeners and the University of Idaho extension service.

A. Mylroie, county extension agent, will be chairman of the morning session and give an address of welcome. On the morning program will be talks on "Farmstead Arrangements for Your Farm" by Owen K. Brown, extension agricultural engineer; "Windbreaks for Your Farm" by Vernon Ravenscroft, extension forester, and "Landscaping the Home Grounds" by Anton S. Horn, extension horticulturist.

Mrs. Lenore Choules, afternoon session chairman, will introduce these speakers: R. D. Merrill, Pocatello attorney, who will talk on "Roses and Rose Culture for Eastern Idaho"; Roland W. Portman, extension entomologist, "Insect Control in Home and Garden"; E. W. Whitman, extension agronomist, "Weed Control in Lawns," and Sidney Nelson, Nelson Floral & Nursery Co., Boise, "All About Flowers."

Anton S. Horn, garden chairman, will direct the evening meeting, which will include a film on "Holland Bulbs" and a talk on "Ten Ways to Control the Climate Around Your Home" by Dave Petrie, Petrie Landscape Nurseries, Boise.

The next morning's session will be devoted to four talks: "How to Make and Care for a Lawn," by E. W. Whitman; "How to Control Plant Diseases" by Anton S. Horn; "Gladiolus Culture and Varieties" by Austin Stover, Blackfoot, Ida., and "Care of House Plants" by Ernest Chase, Pocatello florist. Mack H. Kennington will be chairman of this session.

In the afternoon T. J. Chester will introduce discussions on "Soils and Fertilizers" by Vance T. Smith, ex-

## LINING-OUT STOCK

Spring, 1951

Write for Illustrated List

	Per 100	Per 1000
European Mountain Ash, X, 2 to 3 ft.	\$25.00	.....
European Mountain Ash, 2-0, 12 to 24 ins.	10.00	.....
(Grown from seeds from red-berried trees.)		
Colorado Blue Spruce, 3-0, 4 to 8 ins.	7.00	\$50.00
Colorado Blue Spruce, 3-0, 2 to 4 ins.	4.00	25.00
American Arborvitae, 2-2, 6 to 9 ins.	9.00	75.00
American Arborvitae, 2-2, 4 to 6 ins.	7.50	60.00
Colorado Green Spruce, XXX, 6 to 10 ins.	18.00	.....
Ponderosa Pine, 2-2, 4 to 8 ins.	8.00	.....
Ponderosa Pine, 2-0, 2 to 5 ins.	5.00	35.00
Black Hills Spruce, XX, 9 to 12 ins.	27.50	.....
Black Hills Spruce, XX, 6 to 9 ins.	20.00	.....
Dwarf Montana Mugho Pine, 2-2, 4 to 6 ins., sheared	15.00	.....

### SCOTCH PINE

Stock from Danish Seeds

	Per 100	Per 1000	Per 5000	Per 10,000
2-0, 1 to 3 ins.	\$ 3.00	\$18.00	\$ 80.00	\$150.00
2-0, 3 to 8 ins.	4.50	25.00	120.00	220.00
2-2, 6 to 12 ins.	10.00	.....	.....	.....
2-2, 12 to 18 ins.	20.00	.....	.....	.....

Terms: Cash with order, please; or 25 per cent with order and balance before shipment. Packing free; shipment by parcel post or express, collect. Quantity prices on single items only, not collective totals.

25 at 100 rate; 250 at 1000 rate.

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Philadelphus Minnesota Snowflake  
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More than 12,000 plants to select  
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38 ins. Write for wholesale prices.

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## ATTENTION LINING-OUT STOCK WANTED For Spring, 1951, planting

Please quote on what you can supply of the following:

**EVERGREENS**—State whether seedlings, transplants or potted:

250 Abies concolor	500 Pinus mugho
1500 Juniperus chin. pfitzeriana	500 Pinus nigra
1500 Juniperus chin. hetzi blue	100 Pseudotsuga taxifolia
1500 Juniperus communis depressa	500 Pyracantha coccinea inlandi
plumosa	2500 Taxus cuspidata
300 Juniperus sabina vonehron	500 Taxus cuspidata browni
spreading	200 Taxus cuspidata capitata
100 Juniperus sargentii	500 Taxus cuspidata nana
100 Juniperus squamata meyeri	400 Taxus media hufieldii
500 Picea albertiana	1000 Thuja occidentalis globosa
500 Picea excelsa	1000 Thuja occidentalis nigra
200 Picea excelsa pyramidalis	1000 Thuja occidentalis pyramidalis

**SHADE AND FLOWERING TREES**—Quote sizes you have available if unable to supply size specified.

500 Acer palmatum atropurpureum,	100 Fagus riversi (Red-leaved Beech),
12 to 18 ins.	2 to 3 ft.
350 Acer platanoides, 5 to 6 ft.	1000 Fraxinus americana, 18 to 24 ins.
100 Acer plat. pyramidalis, 5 to 6 ft.	100 Ginkgo biloba, 2 to 3 ft.
1000 Acer saccharum, 5 to 6 ft.	1000 Gleditsia inermis, 18 to 24 ins.
250 Acer schwedleri, 5 to 6 ft.	100 Liquidambar styraciflua,
250 Betula alba, 2 to 3 ft.	18 to 24 ins.
100 Betula alba incinata, 4 to 6 ft.	1000 Liriodendron tulipifera,
250 Betula papyrifera, 2 to 3 ft.	18 to 24 ins.
50 Cercidiphyllum japonicum,	1000 Platanus occidentalis, 18 to 24 ins.
12 to 18 ins.	1000 Quercus palustris, 5 to 6 ft.
200 Crataegus crus galli, 12 to 18 ins.	200 Quercus rubra, 5 to 6 ft.
200 Crataegus cordata, 12 to 18 ins.	100 Prunus Jap. Cherry Weeping,
200 Crataegus oxyacantha, 12 to 18 ins.	4 to 5 ft.
500 Crataegus oxy. paull. 12 to 18 ins.	500 Tilia americana, 18 to 24 ins.
50 Fagus americana, 12 to 18 ins.	50 Tilia pyramidalis, 18 to 24 ins.
	3000 Ulmus americana, 18 to 24 ins.

**SHRUBS**—Quote sizes available. Must be large enough for field planting.

10,000 Berberis atropurpurea,	400 Lonicera korolkowi, 12 to 18 ins.
6 to 10 ins.	200 Lonicera maackii, 12 to 18 ins.
200 Berberis julianae, 6 to 10 ins.	1000 Rhus aromatica, 6 to 10 ins.
200 Berberis mentorensis, 6 to 10 ins.	200 Rosa rugonis, 6 to 10 ins.
100 Calycanthus floridus, 6 to 10 ins.	500 Rosa setigera, 6 to 10 ins.
500 Cotoneaster foveolata, 6 to 10 ins.	500 Rosa wichuradana, 6 to 10 ins.
500 Cydonia pygmaea, 6 to 10 ins.	2500 Spiraea vanhouttei, 6 to 10 ins.
200 Kerria japonica, 6 to 10 ins.	1000 Syringa, Asst. French Hyb.,
250 Lonicera fragrantissima,	12 to 18 ins.
12 to 18 ins.	500 Weigela Eva Rathke, 12 to 18 ins.

Please quote on the above immediately and oblige.

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If so, please write for copy of our new wholesale price list.

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### SEND US YOUR SURPLUS LIST

**NEED** — 8 to 10 and 10 to 12-ft.  
Hard Maples and other trees.

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Ornamental Evergreens,  
Deciduous Trees  
Shrubs and Roses  
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Painesville, Ohio

tension soils specialist; "Evergreens" by Dale Bair, Bair Landscape Service; "Some Deciduous Shrubs" by J. V. Briggs, Briggs Nursery, Pocatello, and "Trees" by Anton S. Horn.

A school for home gardeners to be held January 16 and 17 in the Crystal ballroom, Hotel Boise, Boise, will have as its theme "As You Like It—and As It Should Be."

E. F. Davis, chairman for the first session, will introduce Lloyd Wright, Kimberly Nurseries, Kimberly, who will give an address of welcome. Also on the program will be talks on "Landscaping Small Properties" by Donald J. Martel, head, landscape architecture department, Oregon State College; "Which Evergreens Shall I Use?" by Dave Petrie, Petrie Landscape Nurseries, Boise; "Good Trees to Plant," a panel discussion by E. R. Bennett and John Dominick, both of Boise, and "How to Plant Them Right" by Robert Gates, Boise.

The afternoon session, for which Pete Hamon will be chairman, will include five discussions: "Twenty-seven Garden Questions and Answers" by Tony Horn, University of Idaho extension, Boise; "Easy Ways to Control Our Garden Insects" by R. W. Portman, University of Idaho extension service, Moscow; "Twenty-five House Plants and How to Take Care of Them" by Lawrence Baker, Nampa Floral Co., Nampa, and "The Place of the Camera in the Garden" by John Jensen, Boise park board. For the closing session in the evening, Al Read, chairman, will introduce Donald J. Martel, who will talk on "New Trends in Landscaping."

The first of two sessions the second day will include four topics: "Effective Ways of Eliminating Weeds in the Lawn" by Gene Whitman, Boise; "Roses and How to Grow Them" by Fred Edmunds, curator, International Rose Test Garden, Portland, Ore.; "Peony Varieties and Culture" by Wendel Carnefix, and "Tuberous Begonias" by Warren Carnefix, both of Fruitland Nurseries, Fruitland.

Herman Hilfiker will be chairman of the final session in the evening, which will be devoted to talks on "Twenty-seven More Garden Questions and Answers" by Tony Horn, Boise; "The Dahlias and Their Care" by Mrs. George Webster, Boise; "New and Old Gladioli and Their Culture" by Winston Roberts, Boise; "A Lot About Iris" by Mrs. Sidney Smith, regional vice-president of American Iris Society, Twin

Falls, and "The Best of Them All—Hardy Chrysanthemums" by Sidney Nelson, Nelson Floral & Nursery, Boise.

### NORTH CAROLINA COURSE.

Prof. F. L. O'Rourke, of the department of ornamental horticulture at Michigan State College, will be the principal speaker at the short course for nurserymen, January 10 to 12, at Raleigh, N. C., which the North Carolina Association of Nurserymen is cosponsoring with the department of horticulture and the division of college extension at North Carolina State College, Raleigh. Professor O'Rourke will talk on propagation and the operation of the small nursery. Other topics on the 3-day program will include soil fumigation, petal blight, care of plants in the nursery and plants for the small home.

E. H. Tinga, secretary of the association, has announced that the tentative menu for the banquet January 11 will include T-bone steaks.

### CONNECTICUT MEETING.

When the Connecticut Nurserymen's Association holds its annual meeting January 11 at the Waverly Inn, Cheshire, Dr. Richard P. White, executive secretary of the American Association of Nurserymen, will be the principal speaker.

The 4-H Club home beautification awards will be presented at this time. Entertainment will be furnished by the Julius Hartt Trio, a string ensemble.

### IOWA PLANS MEETING.

When members of the Iowa Nurserymen's Association hold their annual meeting January 12 and 13 at the Hotel Kirkwood, Des Moines, those who also are members of the American Association of Nurserymen will meet with Wayne Ferris, president of the national organization, Friday morning before the state meeting opens.

Dr. Floyd Andre, dean of agriculture, Iowa State College, Ames, will open the program at 2 p. m. with a talk on "Some Problems of Mutual Interest." The three speakers who will follow him on the program and their topics are Kimball D. Andrews, Andrews Nursery Co., Faribault, Minn., president of the National Mail Order Nurserymen's Association, "Direct-mail Advertising"; E. H. Scanlon, commissioner, division of shade trees, Cleveland,

## LINING-OUT STOCK

	Each 10 up	Each 25 up
100 Crimson King Maple (Pat. No. 735), 3 to 4 ft., w.....	\$1.75	\$1.50
	Per 100	Per 1000
5000 Calycanthus, 3 to 6 ins., S, 1-yr.....	\$ 5.00	\$ 25.00
10,000 Chaenomeles lagenaria, 3 to 6 ins., S, 1-yr.....	5.00	20.00
500 Red Dogwood (from isolated trees), 3 to 6 ins., S, 1-yr.....	12.50	100.00
6000 Gray Dogwood (racemosa), 9 to 15 ins., S, 1-yr.....	9.00	50.00
3000 Forsythia spectabilis, 1 to 2 ft., H.W.C.....	8.00	50.00
*2000 Forsythia spectabilis, 18 to 24 ins., br., H.W.C.....	12.50	100.00
*100 Green Ash, 5 to 6 ft., br. tr.....	50.00	.....
*800 Green Ash, 6 to 8 ft., br. tr.....	70.00	600.00
*100 Thornless Honey Locust, 4 to 5 ft., br. tr.....	70.00	.....
*750 Hamamelis virginiana, 5 to 9 ins., S, 1-yr.....	8.00	50.00
*250 Lonicera bella albidia, 18 to 24 ins., br., H.W.C.....	15.00	110.00
400 Lonicera heckrottii, 8 to 15 ins., 1-yr., T.....	12.50	100.00
*400 Lonicera tatarica alba, 18 to 24 ins., br., H.W.C.....	15.00	110.00
*1000 Lonicera tatarica grandiflora, 18 to 24 ins., br., H.W.C.....	15.00	110.00
1500 Lyrulium chinense, 12 to 18 ins., H.W.C.....	6.50	35.00
*1000 Lyrulium chinense, 18 to 24 ins., H.W.C.....	9.00	60.00
1500 London Plane Tree, 2 to 8 ft., H.W.C.....	20.00	180.00
*1500 London Plane Tree, 3 to 4 ft., H.W.C.....	29.00	230.00
*400 Bolleana Poplar, 2 to 4 ft., H.W.C.....	16.00	120.00
*3000 Lombardy Poplar, 3 to 4 ft., H.W.C.....	11.00	80.00
*300 Poplar, simoni fastigiata, 4 to 8 ft., H.W.C.....	22.00	.....
100,000 Quercus palustris, 6 to 10 ins., S, 1-yr.....	8.00	45.00
*700 Salix babylonica, 3 to 5 ins., H.W.C.....	11.00	85.00
*400 Salix niobe golden, 3 to 5 ft., H.W.C.....	11.00	85.00
*200 Salix discolor, 2 to 4 ins., H.W.C., br.....	8.00	.....
500 Tamarix africana, No. 1, H.W.C.....	9.00	60.00

### SHADE TREES—THE COLE SPECIALTY

*Thornless Honey Locust, 8 to 10 ft., 1½-in.	Common Honey Locust, 6 ft. to 1½-in.
*Silver Maple, 1½ to 2½-in.	*Sweet Gum, 2½ to 3-in.
*Erect Norway Maple, 2 to 3-in.	*Lombardy Poplar, tr., 5 ft. to 2½-in.
*Red Maple, 2½ to 5-in.	*Bolleana Poplar, tr., 6 to 8 ft., 8 to 10 ft.; 1½-in.
*Sugar Maple, 8 to 10 ft., 1½ to 2½-in.	*Fastigiata Simon Poplar, tr., 5 ft. to 2-in.
*Aralia spinosa, 4 to 5 ft., 2 to 6 ft.	Red Oak, 2 to 6-in.
*Allanthurus, 8 to 10 ft., 2 to 2½-in.	*Fastigiata English Oak, 1½ to 3½-in.
*Fastigiata Birch, 2 to 3-in.	*Babylon Willow, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.
*White Dogwood, 4 to 12 ft.	*Golden Niobe Willow, 5 to 6 ft., 6 to 8 ft., 8 to 10 ft.
*Washington Thorn, 3 to 12 ft.	*Mountain Ash, 8 to 10 ft.
*Green Ash, 6 to 8 ft., 8 to 10 ft.; 1½ to 1½-in.	
*Fastigiata Ginkgo, 6 to 8 ft., 8 to 10 ft.	

Many Others in Smaller Quantities.

\*Starred Items are perfect grades for mail-order and department store sales.

### SHRUBS — EVERGREENS — ROSES

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ORNAMENTAL TREES  
and SHRUBS**

Fruit Trees and Berries

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**Complete Selection  
of Fine Roses**

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NURSERY COMPANY  
SINCE 1872  
FARIBAULT, MINN.

## WE HAVE IN QUANTITY

Apple, 2 and 3-yr.  
Pear, 2 and 3-yr.  
Cherry, 1 and 2-yr.  
Plum, 1 and 2-yr.  
Apricot, 1 and 2-yr.  
Peach, 1-yr.

Thurlow Weeping Willow,  
5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3½ to 4 ft. Pfizer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

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## LINING-OUT TAXUS

MANY VARIETIES

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NURSERY CO.**

NEW AUGUSTA, INDIANA

## SEE

**C. S. Ingels**

at the Illinois Convention for  
Bargains in Lining-out Stock.

**THE HENRY NURSERIES**  
Ingels Bros.  
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**We offer for Spring 1951  
50,000 Juniperus Grafts**

(Grafted on Red Cedar)

## ORDER NOW

before certain kinds are sold out.

*It's quality that counts.*

### Juniperus chinensis

	Per 100	Per 1000
columnaris glauca	\$47.50	\$450.00
ketelerii	47.50	450.00
compacta	47.50	450.00
mascula	47.50	450.00
pyramidalis	47.50	450.00

### Juniperus virginiana

burki	47.50	450.00
canaerti	47.50	450.00
canaerti compacta	47.50	450.00
elegantissima Lee	47.50	450.00
glauca	47.50	450.00
schottii	47.50	450.00
pyramidalis hilli	47.50	450.00

### Picea pungens

moerheimi	100.00	
-----------	--------	--

### Acer polymorphum

ashi-beni (the best red)	80.00	
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## Out of Pots and Beds

2000 Juniper, Pfitzer,	Per 100	Per 1000
8 to 10 ins., 1-yr.,		
2 1/2-in. pots	\$27.50	\$250.00

1000 Juniper, Pfitzer,		
12 to 15 ins., strong,		
out of beds	\$55.00	500.00

3000 Euonymus patens sieboldi		
10 to 15 ins., bushy,		
out of beds	\$35.00	300.00

**PAUL OFFENBERG  
NURSERIES  
COLUMBUS 13, OHIO**



### EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty

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HEADQUARTERS FOR  
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RARE ITEMS YOU DO NOT  
FIND IN MOST LISTS!

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O., "New Trees for Streets and Small Homes," and Prof. J. R. Fitzsimmons, head, department of landscape architecture, Iowa State College, Ames, "Education in the Landscape Improvement Fields."

At the dinner meeting that night, E. S. Boerner, research department, Jackson & Perkins Co., Newark, N. Y., will talk on "Roses." Entertainment will follow.

At the session Saturday morning, Joseph Howland, garden editor of House Beautiful, New York city, will talk on "Looking Ahead in Climate Control."

## FIRST ARBORISTS' SCHOOL PLANNED AT CORNELL.

Individuals with commercial, technical or scientific interest in growing and caring for trees and shrubs are invited to attend the first New York state arborists' school at Cornell University, Ithaca, January 15 and 16, and participate in discussions

Dr. John F. Cornman and Dr. A. M. S. Pridham, both of the department of horticulture, will talk about "Trees and Shrubs for New York" and "Brush Control," respectively, at the Monday morning session in the plant science seminar room 404, where all the meetings and luncheons will be held.

"Diseases and Decay" will be the subject presented in the afternoon by Dr. D. S. Welch, professor of plant pathology, and "Trees and Soils" will be the topic of Dr. E. L. Stone. Concluding the session will be a general clinic at which anyone may volunteer his specific problems or ideas. The day's activities will include a 7 o'clock banquet at Bethel Grove Community Center.

Tuesday morning's speakers will be Drs. John F. Cornman, John G. Matthyse and A. M. S. Pridham, with the respective topics "Turf Problems," "Insect Pests" and "Tree and Landscape Care." After the luncheon, W. E. Ozard and Drs. Welch and Matthyse are scheduled to discuss "Dutch Elm Disease: The New York State Program." Drs. Matthyse, Welch and Pridham will also discuss "Insecticides, Fungicides and Weed Killers." To conclude the 2-day meeting, Dr. J. L. Brann, Jr., entomologist at the New York agricultural experiment station, Geneva, will lead a round-table discussion concerning the pros and cons of machinery used by arborists, such as sprayers, mist blowers and saws.

Incidental expenses, the luncheons and banquets are included in the registration fee of \$6. Visitors will

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**JUNIPER, Pfitzer, Andorra, Procumbens, Swedish, Greek.**

5 to 8 ins., 14 1/2c  
8 to 10 ins., 20c

**TAXUS CUSPIDATA, Spreading Japanese Yew.**

**TAXUS CAPITATA, Upright Japanese Yew.**

4 to 6 ins., 14 1/2c

**EUONYMUS vegetus.**

**EUONYMUS patens.**

(Large or Small Leaf.)

5 to 8 ins., 14 1/2c

**EUONYMUS coloratus.**

Beautiful leaf-veined ground cover or wall climber.

Branched field plants, 15 ins., 14 1/2c

Heavy, outdoor, summer-rooted cuttings

5c

Above prices are for 300 or more, total order. If less than 300, price is 16c instead of 14 1/2c, 22c instead of 20c, 6c instead of 5c.

Spring List on request.

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St. Joseph, Mo.

Send your order for the new garden book, "Garden Guide for the Midwest," to Frank Glenn, 197 W. 11th St., Kansas City, Mo., \$3.75. Author is Stanley McLane, of J. C. Nichols Co., Kansas City builders. He is held in high regard by engineers, builders, real-estate men and nursery trade in this area.

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Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

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## JUNIPERUS VIRGINIANA

(Red Cedar)

Platte River Strain, 2-yr. edgls.

3 to 6, 6 to 12, 12 to 18, 18 to 24 ins.

State number and grade wanted for quotation.

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1500 U. S. 12 Benton Harbor, Mich.

## GLADIOLUS BULBS

We grow three to four million Glads per year, and bouquet sales take care of half our annual payroll. We will be happy to send you one of our catalogs when the new one is out about January 1. Drop us a card.

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Price per 100

12 to 18 ins., 1-yr. buds.....	\$ 75.00
18 to 24 ins., 1-yr. buds.....	100.00
24 to 30 ins., 1-yr. buds.....	135.00
30 to 36 ins., 1-yr. buds.....	175.00

**SEMME'S NURSERIES**

**AZALEAS - CAMELLIAS**  
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

be accommodated at the Ithaca hotel, Hotel Clinton, Travelers' Inn or rooming houses in the vicinity, and Dr. Pridham will help anyone having trouble in obtaining housing facilities.

**ILLINOIS SPEAKERS.**

When the Illinois State Nurserymen's Association meets January 16 to 18 at the Hotel La Salle, Chicago, the first session, Tuesday afternoon, will be devoted to a program by officers and representatives of the American Association of Nurserymen; the second, Wednesday afternoon, to talks on the shade tree problem in the middle west; the third, Wednesday morning, to a closed business meeting, and the final session, that afternoon, to a meeting of the Illinois A. A. N. chapter. The complete list of speakers and their subjects appeared in the December 1 issue. The banquet will be Wednesday evening, and that afternoon the ladies' luncheon and style show will be in the Narcissus room at Marshall Field & Co.

At the first of the two special luncheons, which have been scheduled for Wednesday and Thursday, Dr. C. J. Birkeland, new head of the department of horticulture, University of Illinois, will discuss "The Future of Ornamental Horticulture at the University of Illinois." A biographical sketch of Dr. Birkeland and a report of the dinner which honored him as new head of the department appear on another page of this issue. A man with twenty years' experience in the fields of teaching, personnel management and selling will be the other luncheon speaker. He is Edward McFaul, now chairman of the speech department at DePaul University and lecturer in

**NO-DRI PROTECTIVE WAX EMULSION**

Spray, paint or dip transplanted trees and shrubs to reduce loss of moisture and winter wind burn.

55-gal. drum....\$63.25 5-gal. drum....\$7.00  
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Protect young nursery stock. Nonpoisonous. Applied by spraying or painting.

55-gal. drum....\$74.25 5-gal. drum....\$10.00  
30-gal. drum....54.00 1-gal. can ..... 3.00

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Dogwood and many other ornamental trees should be protected from borer damage. Nonpoisonous. Simply brush it on as directed.

5-gal. drum....\$11.50  
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Per 10 Per 100  
3 to 4 ft.....\$7.00 \$60.00

5 plants at the 10 rate.

25 plants at the 100 rate.

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NATIVE RED CEDARS**

Immediate and Spring. While they last. Never able to supply all our orders in the spring. Book orders now.

Per 1000  
5 to 10 ins.....\$20.00  
10 to 15 ins..... 35.00  
Per 100  
15 to 24 ins.....\$ 7.50  
24 to 36 ins..... 12.50

Write for good prices on Hard Maples, Dogwood, Redbud, Black Walnuts, etc.

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Tsuga Canadensis.		Per 100	Per 1000
6 to 9 ins., tr. xx.		\$ 9.00	\$ 80.00
9 to 12 ins., tr. xx.		13.00	120.00
12 to 15 ins., tr. xx.		16.00	150.00

Abelia Grandiflora.		Per 100	Per 1000
Hydrangea Paniculata Grandiflora.			
6 to 12 ins., 1-yr., C.	7.00	65.00	
12 to 18 ins., 1-yr., C.	11.00	100.00	
18 to 24 ins., 2-yr., br.	15.00		

Cornus Florida.		Each	
2 to 3 feet, well br.		\$0.20	
3 to 4 feet, well br.		.30	
4 to 5 feet, well br.		.45	

### Native Shrubs and Evergreens

Tsuga Canadensis.		Per 100	Per 1000
3 to 6 ins., s.	\$1.25	\$10.00	
6 to 9 ins., s.	1.60	15.00	
9 to 12 ins., s.	2.50	20.00	
12 to 18 ins., s.	4.00	35.00	
18 to 24 ins., s.	6.00	55.00	

Ilex Opaca.		Each	
Rhododendron Maximum.		Each	
Kalmia Latifolia.		Each	
3 to 6 ins., s.	2.00	15.00	
6 to 9 ins., s.	3.00	25.00	
9 to 12 ins., s.	4.00	35.00	
12 to 18 ins., s.	5.00	45.00	
18 to 24 ins., s.	6.50	60.00	

Kalmia Latifolia.		Each	
Rhododendron Maximum.		per 10	per 100
12 to 18 ins., heavy br.	\$0.20	\$0.15	
18 to 24 ins., heavy br.	.25	.20	

Azalea Calendulacea.		Each	
Azalea Nudiflora.		Each	
12 to 18 ins., liners.		.07	
12 to 18 ins., heavy br.	.12	.10	
18 to 24 ins., heavy br.	.17	.15	

**CUMBERLAND PLATEAU NURSERY**  
YORK ROUTE CROSSVILLE, TENN.

## NURSERY-GROWN

Cornus Florida, 2 to 3 ft., sdgs.		Each	
light br.		\$0.15	
2 to 4 ft., light br.		.25	
4 to 5 ft., sdgs., well br. tr.		.50	
Calyceanthus, 2 to 3 ft., sdgs.		.07½	
Abelia Grandiflora, 12 to 18 ins., light br.		.15	

Amur River South Privet, sdgs., 1-yr., field-run, \$7.50 per 1000.  
Your want list for other stock appreciated.

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Red-leaved Barberry,		Each	
bushy transplants			
15 to 18 ins.		\$0.20	
18 to 24 ins.		.30	
Tree Wistaria		Each	
3 to 4 ft.		3.00	
2 to 3 ft.		2.25	

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Est. 1872  
Nursery & Landscape Co., Inc.  
Write for our complete new wholesale list.  
WINCHESTER, TENN.

advertising at Northwestern University, Chicago. Best described as a serious humorist, Mr. McFaul will discuss the question, "How Confused Can You Get?"

The three men who will discuss the shade tree problem Wednesday afternoon are all well known to the trade. Noel B. Wysong, who will tell about "The Menace of Oak Wilt," has been most active in the fight against this disease, and his report on the recent national oak wilt research committee appears on another page of this issue. He is vice-president of the National Shade Tree Conference as well as secretary-treasurer of the Midwestern Shade Tree Conference, which he has also served as president.

Dr. L. R. Tehon, who will discuss "Phloem Necrosis and Dutch Elm Disease," has spoken before Illinois nurserymen several times. He is head of the section of applied botany and plant pathology of the Illinois Natural History Survey and professor of plant pathology in the graduate school of the University of Illinois.

Dr. L. C. Chadwick, of the department of horticulture, Ohio State University, has spoken before nurserymen's meetings in many states and has conducted the annual Ohio short course for arborists, landscape gardeners and nurserymen.

## COMPLETE PROGRAM FOR OHIO SHORT COURSE.

The program for the twenty-second annual short course for arborists, landscape gardeners and nurserymen, to be held at the Neil House, Columbus, O., has been arranged by the department of horticulture, Ohio State University, and the program for arborists also has been planned with the help of the Ohio chapter of the National Shade Tree Conference.

The first day of the 3-day short course will be devoted to arborists, the second to landscape gardeners and the third to nurserymen. The program for each day is as follows:

### Arborists' Day.

JANUARY 22, 10:00 A. M.

"Methods and Practices of Transplanting Small Trees," by Theodore F. Mathieu, department of horticulture, Ohio State University.

"Toxicity of Some of the Newer Insecticides to Trees," by C. C. Hamilton, department of entomology, New Jersey agricultural experiment station, New Brunswick.

"A Half Century of Tree and Landscape Work," by Edward W. Higgins, Frost & Higgins Co., Arlington, Mass.

JANUARY 22, 1:30 P. M.

"What's New about Dutch Elm Dis-

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Liriodendron,		Per 100	Per 1000
Tulip Poplar.			
6 to 12 ins.	\$1.75	\$15.00	
12 to 18 ins.	2.00	18.00	
2 to 3 ft.	3.00	25.00	
3 to 4 ft.	4.00	35.00	

Cercis Canadensis,		Per 100	Per 1000
Redbud.			
6 to 12 ins.	2.50	20.00	
12 to 18 ins.	3.00	25.00	
2 to 3 ft.	4.00	35.00	
3 to 4 ft.	5.00	45.00	

Cornus Florida,		Per 100	Per 1000
White Dogwood.			
6 to 12 ins.	2.50	20.00	
12 to 18 ins.	3.50	30.00	
2 to 3 ft.	4.50	40.00	
3 to 4 ft.	6.00	50.00	

Azalea,		Per 100	Per 1000
Flame or Red to Crimson.			
6 to 12 ins.	4.50	40.00	
12 to 18 ins.	5.50	45.00	
18 to 24 ins.	6.50	55.00	

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Plum	Cherry	Apricot
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June Bud Peach  
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Ornamental and Shade Trees

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2 and 3-yr. field-grown Grafted Junipers in the above varieties.

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## 30,000 Potted Taxus Liners

1, 2 and 3-year.

Weigela Eva Rathke, transplants.  
Viburnum Rhytidophyllum.

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MT. STERLING, KY.



ease and Phloem Necrosis," by Roger U. Swingle, U. S. D. A. division of forest pathology, Columbia, Mo., and John F. Wooten, U. S. D. A. bureau of entomology and plant quarantine, Columbus, O.

"What's New about Oak Wilt," by T. W. Bretz, U. S. D. A. division of forest pathology, Columbia, Mo.

"Climate Control with Trees," by Peter Cascio, the Peter Cascio Nursery, West Hartford, Conn.

Arboriculture clinic, under the direction of Paul E. Tilford, executive secretary, National Shade Tree Conference, Wooster, O.

JANUARY 22, 6:30 P. M.

Dinner, Neil House.

"The Four Seasons," by Paul Tilford, executive secretary, National Shade Tree Conference, Wooster, O.

Business meeting, Ohio chapter, National Shade Tree Conference.

Landscape Gardeners' Day.

JANUARY 23, 9:30 A. M.

"Garden Lilies," by Victor H. Ries, department of horticulture, Ohio State University.

"The Best in Flowering Crab Apples," by John C. Wister, Swarthmore College, Swarthmore, Pa.

"Lawn Maintenance," by William E. Lyons, greenskeeper and supervisor of employee garden program, Firestone Tire & Rubber Co., Akron, O.

JANUARY 23, 1:30 P. M.

Panel discussion, "The Design of Small Home Grounds," led by Victor H. Ries, department of horticulture, Ohio State University, assisted by Peter Cascio, the Peter Cascio Nursery, West Hartford, Conn.; J. Melvin Easterday, landscape contractor, Canton, O., and Clarence E. Lewis, school of horticulture, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

"Dwarf Shrubs and Evergreens for Landscape Planting," by Clarence E. Lewis, school of horticulture, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

Landscape gardening clinic, under the direction of Victor H. Ries, department of horticulture, Ohio State University.

JANUARY 23, 8:00 P. M.

"The Best in Taxus," by L. C. Chadwick, department of horticulture, Ohio State University.

Nurserymen's Day.

JANUARY 24, 9:30 A. M.

Panel discussion, "Chemical Weed Control in Nurseries," led by L. C. Chadwick, department of horticulture, Ohio State University, assisted by Lewis C. Bookwalter, Berryhill Nursery Co., Springfield, O., and Carl E. Kern, Jr., Wyoming Nurseries, Cincinnati, O.

"Container-grown Plants"—"Cloverset Pots," by Kenneth Haysler, Cloverset Farm, Kansas City, Mo.; "Cans," by John D. Siebenthaler, the Siebenthaler Co., Dayton, O., and William A. Kroger, department of horticulture, Ohio State University.

JANUARY 24, 1:30 P. M.

"Investigations on Nursery Insects During 1950," by R. B. Neiswander, department of entomology, Ohio agricultural experiment station, Wooster.

Nursery Problems—"Some Propagation and Rose Studies," by L. C. Chadwick; "Seed Cleaning and Germination Studies," by B. C. Smith, and "Soil Productiv-

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**PEACH** — Complete assortment of standard varieties.

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Since 1918

NORTH COLLINS, N. Y.

Grapevines, 1 and 2 years old

Blackberries, Currants and Shrubs

Black and Purple Raspberries, Tips and Transplants

Red Raspberries, No. 1 and Transplant Grades

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FRUIT TREES

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APPLE, PEAR, MAHALEB Seedlings.

APPLE, PEACH, CHERRY, PLUM Trees.

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Raspberry, Grapevines, Boysenberry,  
Dewberry, Blackberry and Horse-rad-  
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## FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard.

Pear, 1 and 2-yr., Dwarf and Standard.

Plum, 1 and 2-yr.

Sweet and Sour Cherry,  
1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

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**KELLY BROS. NURSERIES, Inc.**  
DANSVILLE, N. Y.

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**East Malling IX  
Dwarf Rootstock**

**\$18.00 per 100**

**\$150.00 per 1000**

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## SMALL FRUIT PLANTS

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## SMALL FRUIT PLANTS

Evergreens—Shrubs  
Asparagus—Rhubarb  
Send for Complete Trade List.

**W. N. SCARFF'S SONS**  
NEW CARLISLE, O.

ity Studies," by Jack D. Strader, all of the department of horticulture, Ohio State University.

"New Techniques in Woody Plant Propagation," by John L. Creech, U. S. D. A. division of plant exploration and introduction, Beltsville, Md.

Nursery clinic, under the direction of L. C. Chadwick, department of horticulture, Ohio State University.

## MARYLAND SHORT COURSE.

January 31 is the date set for the short course which the Maryland Nurserymen's Association is cosponsoring with faculty members of the University of Maryland at College Park.

At the morning session in room 112 of the Horticulture building, Prof. Pardon W. Cornell, department of horticulture, will speak on "University of Maryland Research of Interest to Nurserymen"; Richard H. Fillmore, propagator at the Arnold Arboretum, Jamaica Plain, Mass., "Propagation of Woody Ornamental Plants," and B. Y. Morrison, acting director of the National Arboretum, Washington, D. C., "Azaleas."

At 1 p. m. the nurserymen will join members of the Middle Atlantic Florists' Association in the dining commons for luncheon. They will hear Curtis H. Porterfield, administrative assistant of the American Association of Nurserymen, Washington, D. C., and Robert Roland, executive secretary of the Society of American Florists, Chicago, discuss "Governmental Restrictions Affecting Nurserymen and Florists."

A forum on design will be held at 3 p. m. in the Horticulture building. Martin Funnell, landscape architect, Baltimore, Md., will speak about "Principles of Good Landscape Design," and Carl N. Johnson, landscape extension specialist, will describe "Special Features in the Landscape."

## "PLANT AMERICA" TO BE VIRGINIA THEME.

This year the Virginia Nurserymen's Association will take as its convention theme, "Plant America," when it meets January 28 to 30 at the Hotel John Marshall, Richmond. The formal addresses, panel discussions and open forums will develop this slogan by asking the nurserymen to plant with vision, optimism, intelligence, patriotism, better merchandising, better production and with ideas and ideals for the betterment of the entire industry.

Wholesale, retail and landscape nursery operations will be covered by two panel discussions, one on

## AMERICAN NURSERYMAN



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STRAWBERRY PLANTS  
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## PEAR TREES

10 trees or 50,000 trees.

Le Conte, Garber, Kieffer, Douglas, Baldwin, Orient, Pineapple, Bartlett, Biscamp, Lincoln and others. Each

2 to 3 ft.	25c
3 to 4 ft.	35c
4 to 5 ft.	40c
5 to 6 ft.	45c
6 to 7 ft.	50c
7 to 8 ft.	55c

Write us about any big order for orchard planting.

We have a few thousand P. calleryana seedlings to offer the trade this season in sizes from 16 to 24 ins., well calipered. Apparently the best understock for long-life pear trees. Ask for our list. Satisfied customers throughout the southwest are our best references.

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Large, No. 1 divisions.

The kind you like to get.

**\$20.00 per 100**

Cash with order, packing free.

Write for prices on larger quantities.

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SIOUX FALLS, SOUTH DAKOTA

*We specialize in  
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Chipman's Canada Red, MacDonald and Valentine Rhubarb.

Minnesota Fruit Breeding Farm creations.

Hardy Apple and Plum Seedlings.

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## GRAPE CUTTINGS

New low prices per 1000.

Concord, \$5.00; Niagara, \$5.50;

Delaware, \$5.50; White Elvira, \$5.50.

Wire-bound, 100 per bunch, expertly cut. Packing free.

Place orders at once, large or small.

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Prices F.O.B. Liss Station, England.

	Per 100	Per 1000
First, 6 to 12 mm.....	\$6.00	\$56.00
Seconds .....	5.50	50.00

Also the latest English varieties of fruit trees all on stocks recommended by East Malling Research Station. Price list on application.

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## BRINKMAN'S The largest producers of MALLING STOCKS and FRUIT TREES in Europe.

Types I, II, IX, XIII, XVI one-year transplanted ex own stool beds.

	Per 100	Per 1000
5 to 7 mm.....	\$5.00	\$45.00
7 to 10 mm.....	7.00	65.00
8 to 12 mm.....	8.00	75.00

F.O.B. Southampton—packing and other charges forward.

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The banquet on the evening of January 29 will honor the 18-year-old association's past presidents, all but one of whom are living and active in the nursery business in Virginia today. A speaker of national repute will give an address on the problems confronting the world, particularly the United States.

A luncheon and fashion show is being planned for the ladies. And the hotel is providing a hospitality room where conventioners and their guests may relax and find refreshment after business sessions. Educational as well as commercial exhibits will be on display and will be open to the public during specified hours.

### MISSISSIPPI COMMITTEES.

Directors of the Mississippi Florists' and Nurserymen's Association met recently to plan the annual convention scheduled for June 24 to 26 at the Edgewater Gulf hotel, Gulfport, and President John Harkins, Harkins the Florist, Jackson, appointed committee chairmen to handle the various phases of the 3-day event.

Chairmen appointed are as follows: Arrangements, William Adams, Loraine Flower Shop, Gulfport; design school for florists, J. W. Martin, Pugh's Flower Shop, Pascagoula; growers' school, E. W. McElwee, department of horticulture at Mississippi State College, State College; souvenir program, Jerre Griffith, Griffith Florist, Vicksburg; trade exhibits, Vincent Daurio, Daurio's Florist & Nursery, Gulfport; registration, Mrs. Kay Carron, Kay's Flowers, Biloxi; entertainment, Howard Adams, Loraine Flower Shop, Bay St. Louis, and publicity, F. S. Batson, department of horticulture, Mississippi State College.

REOPENING of the South Miami Nursery, P. O. Box 603, South Miami, Fla., has been scheduled for January 3 by Owner Ralph Ruhl.

AWARDED a Fulbright fellowship by the United States Department of State, Edgar Bowers, son of Mr. and Mrs. W. E. Bowers, Stone Mountain Gardens, Stone Mountain, Ga., recently left for Paris, France, where he will study for a year under the fellowship. He had previously completed academic requirements for a Ph.D. degree at Leland Stanford University, in California.



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## OBITUARY

**Lambertus C. Bobbink.**

Lambertus C. Bobbink, 84, president of Bobbink & Atkins, East Rutherford, N. J., died December 7 at Hackensack hospital, Hackensack, N. J., after a brief illness.

Nationally recognized for his contributions to rose culture, Mr. Bobbink was the first person in the United States to produce 2-year-old, hybrid tea roses budded on multiflora understocks, which he did in 1910. An authority on roses and their history, he reintroduced many old-fashioned and species roses. A bronze plaque, dedicated in 1939 at the New York Botanical Garden, honored Lambertus C. Bobbink "as the man who more than any other is believed responsible for the widespread and successful culture of roses in America today." Over a period of thirty years, Mr. Bobbink contributed the vast majority of the rose plants on view in these gardens. He also introduced the hybrid Rutherfordiana azaleas in 1935 and the hybrid Indica azalea, since named in his honor, in 1944.

Born and reared in Holland, he served apprenticeship in leading nurseries in Holland, Germany, France and England. When he came to America in 1895 as salesman for a syndicate of eighty-six Dutch nurserymen, his venture seemed to be a failure, because no one was interested in the large variety of woody plants which he offered. He returned to the United States with his own stock in 1896 and established a nursery at Rutherford, N. J. When the late Frederick L. Atkins formed a partnership with Mr. Bobbink in 1897, the firm of Bobbink & Atkins secured acreage at East Rutherford, where the home office and greenhouses are now situated, and large tracts were later obtained at Clifton, where the nurseries are located. Starting with five acres of land, the firm grew to include more than 500 acres of nursery stock and 300,000 square feet of greenhouses.

Active in both national and state trade associations, Mr. Bobbink was a trustee of the American Association of Nurserymen at the time of his death, having held this position for many years. He was awarded numerous citations by horticultural groups. The New Jersey Association of Nurserymen honored him for his distinguished service to horticulture in 1945; the American Rose Society

presented him its honor medal in 1945 for "outstanding work and service to the rose for a great number of years"; the Men's Garden Club of America gave him its annual Johnny Appleseed award in recognition of his achievements in the field of horticulture in 1946; the New Jersey board of agriculture awarded him a citation for his contributions to the nursery and greenhouse industries in 1948, and the Horticultural Society of New York and the New York Florists' Club bestowed on him the Charles H. Totty memorial gold medal, seldom given to an individual, in 1948.

Survivors are his widow, Mrs. Gertrude Schmidt Bobbink, whom he married in 1897, and one daughter, Mrs. George C. White, whose husband is vice-president and treasurer of the firm.

#### William P. Bellinghausen.

William P. Bellinghausen, 58, operator of the Bellinghausen Nursery, Ponca City, Okla., accidentally shot himself to death December 13 at his nursery. County police said he apparently had gone into the yard to shoot rabbits that had been damaging fruit trees, and the shotgun accidentally discharged when he stumbled over a brush pile.

Born at Lawrence, Kan., March 11, 1892, Mr. Bellinghausen moved to Ponca City in 1899. He had been in the nursery business since 1933. He had been active in Boy Scout work for fifteen years and was a member of the local chamber of commerce as well as of the state and national nursery associations.

Survivors are his widow; two sons, F. W. Bellinghausen, Ponca City, and Joe Bellinghausen, now in the United States Army Air Corps and stationed on Long Island, N. Y.; a daughter, Mrs. M. S. Trawczyk, Tulsa; three brothers, Fred Bellinghausen, Los Angeles, Calif., and L. L. and Oscar Bellinghausen, both of Ponca City; two sisters, Mrs. Wayne Moler, Ponca City, and Mrs. Catherine McCormack, McAlester, Okla.; his father, P. J. Bellinghausen, Ponca City, and three grandchildren.

#### Bartholomew Colavecchio.

Bartholomew O. Colavecchio, nurseryman at Painesville, O., died November 22 at his home there. He was born in 1868 in Italy and came to the United States shortly after his marriage to Miss Pauline DeCristo in 1893. They lived at Perry, O., for about a year and then moved to the home in which they resided for fifty-three years. They celebrated



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their fifty-seventh wedding anniversary last March.

Besides his widow, Mr. Colavecchio is survived by a son, Louis, at home, a nurseryman, and five other sons, Mike, Dominic and John, Painesville; Vincint, Fairport, and Nick, Fostoria; a daughter, Rose; nine grandchildren, and three great-grandchildren.

George W. Hall.

George W. Hall, vice-president of Killen & Hall, Inc., Darien, Conn., was killed November 26 while removing a tree from a house. The tree had been blown down by the hurricane of November 25.

Mr. Hall is survived by his widow; two children; mother, and three brothers, Wesley Hall, president of Killen & Hall, Inc., Warren Hall, of the same firm, and LeRoy Hall, of Dover, Del.

Donald B. Johnston.

Donald Bond Johnston, landscape architect, died at Indianapolis, Ind., November 22. He was 59 years old.

A member of the American Society of Landscape Architects, Mr. Johnston had been landscaping consultant to the Indiana State Conservation department and the state parks commissions and for Miami University, Oxford, O. His widow and two daughters survive.

## CATALOGS RECEIVED. WHOLESALE PRICE LISTS.

W. B. Clarke & Co., San Jose, Calif.—Evergreens, fruit trees, deciduous trees and shrubs, ornamentals and vines; 40 pages and cover, 4x9 inches.

Leonard Coates Nurseries, Inc., San Jose, Calif.—Deciduous and evergreen ornamentals and lining-out stock, fruit trees and roses, illustrated; 24 pages, 6x9 inches.

M. Herb, Naples, Italy—Flower and vegetable seeds, 72 pages and cover, 6x9 1/4 inches.

## RETAIL PRICE LISTS.

Richmond Nurseries, Richmond Beach, Wash.—Fruit trees, small fruits, shade trees, deciduous shrubs, evergreens and vines; one-page folder; 4x9 1/2 inches.

Ansaloni, Bologna, Italy—Fruit trees, small fruits, evergreens, ornamentals, perennials, bulbs and garden supplies; 48 pages and cover, 8 1/4 x 11 inches.

EARLY in November Evans & Reeves Nurseries, Inc., Los Angeles, Calif., opened a branch salesyard and landscape department on the corner of Ventura boulevard and Woodley road, Encino. Since is in the San Fernando valley, the branch has been named Evans & Reeves Valley Nursery. Dudley Hickman is general manager.

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**SAN JOAQUIN CHAPTER.**

The November meeting of the San Joaquin chapter of the California Association of Nurserymen was held at Malto's Shack, near Merced. Following the annual Thanksgiving dinner, a superb magic show was presented by Mr. and Mrs. Edward Hirsch, of Merced.

The members and guests participated in another annual affair of the San Joaquin chapter, the Australian Auction, whereby objects, ranging all the way from cameras to 5-pound slabs of bacon, are auctioned off to raise funds for the annual Christmas party. The amount raised this year was \$68.50. It was moved and seconded that Fresno be host for the Christmas party, with Syd Whitehorn as chairman.

Mrs. Willis Stribling introduced a proposed ladies' program for the state association's 1951 convention. Ivan L. Stribling, Sec'y.

**CALIFORNIA NOTES.**

A group of peninsula nurserymen has been holding a series of informal meetings during the past few weeks, the latest of which was held December 15. Topics discussed included the prices to be charged for bedding plants, canned plants and for balled and burlapped nursery stock; business management in relation to the rising costs of production, and the matter of credits and discounts for contracting gardeners and landscape architects. The group has no officers or other formal organization. Each person attending a meeting is required to bring to the next meeting one eligible nurseryman who has not previously attended.

Fire did small damage to the Home & Garden Supply Store, 602 San Mateo avenue, San Bruno, recently. Clarence Hankins, the proprietor, reports that the fire started from an overheated cooking apparatus.

Joe Macho, Lomita Park Nursery, Lomita Park, was guest speaker at a recent meeting of the Ray Park Improvement Club. He told of spring care for the home garden.

Leon Wilson, bay area tree surgeon, died recently as a result of injuries received while topping a tree in the Vallemar area.

The Christensen Nursery, Belmont, held the winter session of its school for home gardeners December 10 at the nursery. At the morning session talks were given on rose and fruit tree pruning and planting and on the winter or dormant pest con-

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trol in the home garden. At the afternoon session there was a repetition of the morning program plus an illustrated lecture by Norvell Gillespie on his recent trip through European gardens. The nursery has added to its line of power garden equipment and is providing a separate building for its display.

Jack Weir, of the San Carlos Nursery, San Carlos, has advised the office of the county agricultural inspector that he has sold his nursery as of January 1, 1951.

The Karamatzu Nurseries, San Leandro, which for many years grew only cyclamens for the retail florists' trade, are changing over to a more extensive line, including succulents and quick-growing vines and dish garden plants.

The Nelson Nursery, San Leandro, which formerly was devoted almost entirely to the growing of bedding plants in flats, is expanding. For the first time, Easter lilies, potted azaleas and potted geraniums are being grown on a large scale. The nursery has added to its area under lath and is also planting additional ground outdoors for growing stock plants.

John Edwards, Edwards Camellia Nursery, East Palo Alto, has been confined to his home with a throat infection.

Officers for 1951 were elected at a recent meeting of the Pacific Coast Horticultural Society. They are Fred Diernisse, president; William Haitland, vice-president; Raymond Peterson, secretary; Clarence Hoff, treasurer; Max Meier, trustee, and E. Starr and V. Ashford, ushers. This group is said to be the oldest commercial horticultural organization on the west coast. It is composed largely of estate gardeners.

Oregon State College announces the employment of Dr. Harold J. Jensen as full-time nematologist. He is a graduate of the University of California, at Berkeley, and will devote all of his time to working with the horticulturists at the college on the control of nematodes. The first university to establish a department of nematology was the University of California, at Berkeley, which did so about five years ago. Until then all such work was conducted by the United States Department of Agriculture. W. B. B.

LARGE picture windows are a feature of the sales building of the new nursery opened by L. H. Hall and A. T. Roberts on Garvey avenue, Baldwin Park, Calif.



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## BOOKKEEPING FOR THE LANDSCAPE NURSERY

[Concluded from page 12.]

ceivable that the rate of depreciation taken on it should be ten per cent a year for ten years. Except for the influences of depreciation on replacement cost, there can be little difference which rate you have used. However, if you sell this truck, your profit or loss is determined by the difference between what you received for it, the amount remaining to be recovered of the purchase price considering the depreciation taken by the time the sale was made. But do not forget the purpose of the depreciation reserve in your bookkeeping. This reserve is cash set aside to replace equipment as it wears out. Depreciation is actually a portion of the cost of goods sold and is part of your overhead.

There is a general misunderstanding of what composes overhead in the nursery business. Some cockeyed conceptions of overhead have been observed in conversations with nurserymen. Some of these boys say they are really keeping the overhead down because they do not have a display yard! They are, of course, in a sense avoiding an overhead item which could be major or minor, depending on the salesyard size which they are not using! They are not, however, avoiding the nonoptional overhead items. These are the ones which we all have, and we are doing something constructive when we recognize them. For one thing, any land, whether owned or rented, is affecting your capital investment. If you are renting facilities, your recognition that money is being spent for an overhead item is more immediate. In using your own land on which you are not charging yourself the rent which the investment calls for is ostrich business. You are paying taxes on this owned land, another overhead item. The overhead on labor today is increasing. Last year you paid the employer's contribution of one per cent of payroll; this year you paid one and one-half per cent contribution. For your own peace of mind, list all the items which compose your overhead. Do this before you make out your price list. The materials and supplies incident to growing, selling and installing plant materials are all overhead. They are mostly small items such as gasoline, but they add up to a real percentage of the cost of goods sold.

One last word. Keeping nonproductive labor on the payroll during the off season is a big factor for all but the one-man nursery.

To get  
healthier produce  
to market sooner

use



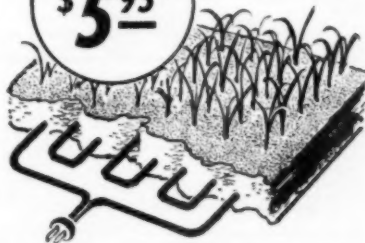
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NEW 30-foot set for

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Order from your  
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ONLY  
**\$5.95\***



**CABLE** is easy to install—just plug it into a 110-volt outlet. Cable also available in a 60-foot set for a 36-square-foot bed, in a 120-foot set for a 72-square-foot bed, and in bulk lengths.

**NEW** direct-burial thermostat for keeping beds at ideal growing temperatures up to 100°F now available—only \$7.50.\* Thermostat operates one or two 60-foot sets or up to six 30-foot sets. Thermostats also available for controlling longer lengths. Apparatus Dept., General Electric Co., Schenectady, N. Y.

\*Manufacturer's suggested retail price.

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If you do not know the name of your local dealer or distributor, you can get more information on G-E soil-heating cable by sending this coupon to:

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General Electric Co., Schenectady, N. Y.

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Hinodogiri and other varieties, including Kaempferi and Glenn Dale Hybrids. Nice, bushy plants. Prices of Hinodogiri and most Kurumes, packing additional:  
8 to 10 ins. .... \$ 90.00  
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Add 10c per plant for burlap wrapping.  
Send for complete list of Azaleas, Broad-leaved Evergreens, Shrubs, Trees, etc.  
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**DIRECT FROM KURUME, JAPAN.**  
2 and 3-yr., with flower buds for landscaping  
30c and 50c each, F.O.B. Seattle.  
Send for list of names and special prices by case lot. Delivery approximately 60 days.  
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Spring-dug, true-to-name, in A-1 growing condition. .... Per 1000  
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**BLACK RASPBERRY TRANSPLANTS.**  
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Write for prices along with complete list of berries and grapes.  
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**EVERBEARING STRAWBERRIES.**  
All the newest and best varieties. Fine, heavy-rooted, healthy plants.  
Write for price list.  
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**DARWIN TULIPS.** 11 to 12 cm., \$5.00 per 100, William Pitt (red), Rose Copland (rose), Pride of Haarlem (red), Bartington (red), Yellow Giant (yellow), William Copland (lavender).  
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New, rare, scarce and unusual as well as standard varieties. Send for your free copy. New wholesale list now ready.  
**J. HENDRIKS, GROWER, PORTAGE, MICH.**

**DAHLIA ROOTS.**  
We grow many acres of standard varieties. Write today for wholesale price list.  
**PAYNE DAHLIA FARMS**  
Route 5, Kansas City, 3, Kan.

## EVERGREENS

### LINING-OUT STOCK.

	Per 100	Per 1000
Scotch Pine, 2-6, 3 to 8 ins. ....	\$ 3.00	\$ 25.00
Scotch Pine, 8-12, 2-6, 3 to 6 ins. ....	3.50	30.00
Austrian Pine, 2-6, 3 to 6 ins. ....	4.00	35.00
Mugho Pine (Dwarf), 2-6, 3 to 4 ins. ....	3.00	25.00
Mugho Pine (Dwarf), 3-6, 3 to 6 ins. ....	5.00	45.00
Mugho Pine (Dwarf), 2-1, 2 to 4 ins. ....	5.00	45.00
Table Mountain Pine, 2-6, 3 to 6 ins. ....	2.50	20.00
Table Mountain Pine, 1-1, 3 to 6 ins. ....	4.00	35.00
Norway Spruce, 3-6, 3 to 6 ins. ....	3.50	27.50
Norway Spruce, 2-1, 3 to 6 ins. ....	5.50	50.00
Norway Spruce, 2-2, 6 to 10 ins. ....	8.00	75.00
Colorado Blue Spruce, 2-1, 2 to 4 ins. ....	4.50	40.00
White Spruce, 2-0, 3 to 6 ins. ....	3.00	25.00
Black Hills Spruce, 3-6, 2 to 4 ins. ....	3.00	27.50
Black Hills Spruce, 2-2, 2 to 6 ins. ....	5.00	45.00
Black Hills Spruce, 3-2, 3 to 6 ins. ....	6.00	55.00
Black Hills Spruce, 3-2, 8 to 18 ins. ....	7.00	65.00
Balsam Fir, 3-0, 2 to 4 ins. ....	3.00	27.50
Oriental Arborvitae, 1-2, 6 to 18 ins. ....	10.00	85.00
Dwarf Oriental Arborvitae, 1-2, 6 to 12 ins. ....	10.00	90.00
Pyramidal Oriental Arborvitae, 1-2, 6 to 12 ins. ....	10.00	90.00

For complete list write to  
**JOHN G. ZELENSKA**  
Rt. 2, Box 233 Grand Haven, Mich.

### SEEDLINGS FOR SPRING.

	Per 100	Per 1000
Scotch Pine, 2 yrs., 4 to 8 ins. ....	\$ 5.00	\$25.00
Scotch Pine, 2 yrs., 2 to 4 ins. ....	4.00	15.00
Scotch Pine, 2 yrs., 1 to 2 ins. ....	2.00	10.00
Austrian Pine, 2 yrs., 4 to 6 ins. ....	5.00	25.00
Austrian Pine, 2 yrs., 2 to 4 ins. ....	4.00	15.00
Austrian Pine, 2 yrs., 1 to 2 ins. ....	2.00	10.00
White Pine, 2 yrs., 4 to 6 ins. ....	4.00	20.00
White Pine, 3 yrs., 5 to 8 ins. ....	7.00	30.00
Norway Spruce, 2 yrs., 2 to 4 ins. ....	4.50	20.00
Norway Spruce, 3 yrs., 5 to 10 ins. ....	7.00	40.00
White Spruce, 2 yrs., 2 to 4 ins. ....	5.00	25.00
White Spruce, 3 yrs., 4 to 8 ins. ....	8.00	40.00
Colorado Blue Spruce, 2 yrs., 2 to 4 ins. ....	5.00	25.00
Colorado Blue Spruce, 3 yrs., 3 to 7 ins. ....	8.50	40.00
American Red Pine, 2 yrs., 2 to 5 ins. ....	5.00	35.00
American Arborvitae, 3 yrs., 4 to 8 ins. ....	7.00	35.00
Douglas Fir, 2 yrs., 3 to 4 ins. ....	5.50	25.00

**TRANSPLANTS.**  
Scotch Pine, 2-1, 5 to 8 ins. .... 7.50 45.00  
Scotch Pine, 2-1, 3 to 5 ins. .... 7.00 35.00  
Austrian Pine, 2-1, 3 to 6 ins. .... 7.50 45.00  
Norway Spruce, 2-1, 3 to 5 ins. .... 7.50 40.00  
Arborvitae, 2-2, 10 to 18 ins. .... 35.00  
Cash, or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000.  
**SAM DIBLE NURSERY** Shelocota, Pa.

### LINING-OUT STOCK. POTTED EVERGREENS.

Variety and height	Per 100
Juniperus depressa plumosa, 6 to 8 ins. ....	\$17.50
Juniperus excelsa stricta, 6 to 8 ins. ....	17.50
Juniperus hetsi, 6 to 8 ins. ....	20.00
Juniperus hibernica, 6 to 8 ins. ....	17.50
Juniperus pfitzeriana, 6 to 8 ins. ....	30.00
Juniperus sabinia, 6 to 8 ins. ....	17.50
Taxus cuspidata, 6 to 8 ins. ....	22.50
Taxus hicksii, 6 to 8 ins. ....	25.00
Thuja pyramidalis, 8 to 10 ins. ....	22.50
Retinospora plumosa aurea, 10 to 12 ins. ....	22.50

Packing without cost when cash accompanies order.  
**The HOLLANDIA GARDENS, Inc.**  
South Vienna, O.

### EVERGREEN LINERS.

	R.C.	Pot Plants
	Per 1000	Per 1000
Baker Arborvitae ....	\$ 80.00	\$150.00
Excelsa Arborvitae ....	80.00	150.00
Berckmans Arborvitae ....	100.00	170.00
Blue Cone Arborvitae ....	80.00	150.00
Bonita Arborvitae ....	80.00	150.00
Golden Ball Arborvitae ....	100.00	170.00
Newark Arborvitae ....	80.00	150.00
Globe Arborvitae ....	80.00	150.00

Heavily rooted cuttings from Vermiculite are ready now. Pot plants now in greenhouse will be ready for delivery March 1 or later, from 2 1/2-in. pots, or from 2x2x3 Bird bands.  
**CARTWRIGHT NURSERIES**  
Collierville, Tenn.

## EVERGREEN SEEDLINGS.

All seedlings run of beds.

	Per 100	Per 1000
Pine, Austrian, 2-yr. sdigs, 3 to 5 ins. ....	\$3.50	\$25.00
Pine, Mugho, 2-yr. sdigs, 1 to 3 ins. ....	3.50	25.00
Pine, Ponderosa, 2-yr. sdigs, 2 to 5 ins. ....	3.50	20.00
3-yr. sdigs, 6 to 10 ins. ....	5.00	40.00
Pine, Scotch, 2-yr. sdigs, 3 to 6 ins. ....	3.50	25.00
Spruce, Black Hills, 2-yr. sdigs, 1 to 2 ins. ....	3.50	25.00
Spruce, Colorado, 2-yr. sdigs, 1 to 3 ins. ....	3.50	25.00
3-yr. sdigs, 4 to 10 ins. ....	5.00	40.00
Spruce, Norway, 2-yr. sdigs, 2 to 5 ins. ....	2.50	20.00
3-yr. sdigs, 4 to 12 ins. ....	5.00	35.00
Spruce, White, 2-yr. sdigs, 2 to 4 ins. ....	2.50	20.00
Fir, Douglas, 2-yr. sdigs, 2 to 6 ins. ....	2.50	20.00

## HEASLEY'S NURSERIES

Telephone Butler 46-353  
Freeport Rd. Butler, Pa.

## JUNIPER GRAFTS.

For spring delivery, ready for field and cultivation. .... Per 100 Per 1000  
J. chin. pfitzeriana ..... \$37.50 \$350.00  
J. chin. pfitzeriana aurea ..... 40.00 375.00  
J. c. pfitzeriana armstrongii ..... 40.00 375.00  
J. chin. pfitzeriana compacta ..... 40.00 375.00  
J. chin. sargentii, green ..... 40.00 375.00  
J. chin. sargentii, blue ..... 40.00 375.00  
J. chin. keteleeri ..... 40.00 375.00  
J. virginiana canaerti ..... 40.00 375.00  
J. vir. pyramidaliformis ..... 40.00 375.00  
J. virginiana glauca ..... 40.00 375.00  
J. virginiana burkii ..... 40.00 375.00  
J. vir. glauca globosa ..... 65.00

\*(Our new blue globosa; first time on market.)

Terms: Cash with order, packing free; 25 per cent deposit with order, packing at cost, balance when shipped.

## ARROW WOOD NURSERY

Box 166	Warsaw, Ky.
1500 White and Norway Spruce, 3 to 4 ft., well filled. ....	\$2.00
1000 White and Norway Spruce, 4 to 5 ft., well filled. ....	2.50
500 Pfitzer Juniper, 18 to 24 ins., heavy 2.00	
400 Pfitzer Juniper, 24 to 30 ins., heavy 2.25	
700 Woodward Globe Arb., 15 ins., heavy. ....	1.25
1000 Hemlock, 3 to 4 ft., well filled. ....	3.00
3000 Chinese Chestnut, 2 to 3 ft., 50c; 3 to 4 ft., 60c; 4 to 5 ft., 70c each.	

## HOME NURSERY CO.

Fort Gay, W. Va.

4-yr. LINERS, twice transplanted. .... Each  
Taxus, spreading, 10 to 15 ins. .... \$0.45  
Taxus nana brevif., 8 to 12 ins. .... .50  
Above stock pruned to sizes indicated  
Tauga canadensis, 6-yr., 12 to 15 ins. .... .30  
Tauga canadensis, 6-yr., 15 to 18 ins. .... .40  
Minimum: Lots of 25, 100 assorted your choice 10 per cent discount. 250 assorted, 15 per cent discount.  
Cash, please, F.O.B. Packing free.

**MOUNTAINVILLE FOREST NURSERIES**  
Lebanon, N. J.

## LINING-OUT STOCK.

	Per 100
Juniper, Von Ehren, 2 1/2-in. pots, 9 to 12 ins. ....	\$30.00
Juniper, Andorra, 2 1/2-in. pots, 6 to 8 ins. ....	20.00
Above potted liners are now growing in greenhouse. Shipment May 1 to 15.	
Juniperus pfitzeriana, XX, field, 8 to 12 ins. ....	40.00

Cash with order, packing free.  
**DAMASCUS NURSERIES**  
Box 138 Damascus, Ohio

Arborvitae, Globe, 18 to 24 ins. .... Each \$2.00  
Arborvitae, Globe, 2 to 2 1/2 ft. .... 2.25  
Arborvitae, Siberian, 18 to 24 ins. .... 2.00  
Arborvitae, Siberian, 2 to 2 1/2 ft. .... 2.25  
Biota aurea nana, 18 to 24 ins. .... 2.25  
Biota aurea nana, 2 to 2 1/2 ft. .... 2.50  
Prices apply on lots of 25 or more of a size and variety. F.O.B. Clyde. Sheared and of highest quality. We invite your inspection.  
**The CLYDE NURSERY** Clyde, Ohio

Our complete list of lining-out stock covering both broad-leaved and coniferous evergreens, shrubs, etc., is now ready for mailing upon receipt of your request.  
**T. G. OWEN & SON, Inc.** Columbus, Miss.

**EUONYMUS RADICANS VEGETUS.** Per 100 Per 1000  
Strong rooted cuttings. .... \$5.00 \$75.00  
**PLANE VIEW NURSERY**  
Newport, R. I.

LINING-OUT STOCK.  
1-yr. bedded.

	Per 100	Per 1000
Taxus hicksii	\$15.00	\$125.00
Taxus cuspidata	15.00	125.00
Taxus hatfieldii	17.50	150.00
Taxus brevifolia	20.00	200.00

Tsuga canadensis	7.00	60.00
2-yr. tr., 4 to 6 ins.	11.00	100.00
3-yr. tr., 6 to 9 ins.	16.00	150.00
4-yr. tr., 9 to 12 ins.		

Complete list of liners on request.

VERKADO'S NURSERIES Wayne, N. J.

EVERGREEN PLANT MATERIAL.  
ADVANCED LINERS in Azalea, Cornus,  
Cotoneaster, Ilex, Juniperus, Kalmia, Leuco-  
thoe, Pieris, Rhododendron, Taxus, Thuja,  
Tsuga, Viburnum.

Finished Trees in Colorado Blue Spruce.

All Certified for Western Shipment.

Write for Wholesale Price List.

H. W. WEBER EVERGREEN NURSERY

16 Summer St. Weston 93, Mass.

## EVERGREEN SEEDLINGS. Per 100 Per 1000

Scotch Pine, 2-0, 3 to 5 ins.	\$3.00	\$20.00
Jap. Red Pine, 2-0, 3 to 5 ins.	3.00	20.00
White Spruce, 2-0, 1 to 4 ins.	2.50	15.00
White Pine, 3-0, 4 to 8 ins.	4.00	20.00
Black Hills Spruce, 3-0,		

5 to 8 ins. 5.00 35.00

Cash with order, please.

ARTHUR CASH NURSERY

Angola, N. Y.

## 10,000 CEDAR SEEDLINGS.

	Per 100	Per 1000
2 to 4 ins.	\$1.50	\$12.00
4 to 6 ins.	3.50	30.00
6 to 9 ins.	4.50	40.00

300 at 1000 rate.

BECK NURSERY

2016 N. Independence Enid, Okla.

## UNROOTED CUTTINGS OF PFIZER

JUNIPER, 6 to 10 ins. long, not trimmed.

Moss packed; express only. \$10.00 per 1000.

Cash with order.

KRONE'S FLOWER SHOP

4221 Grand Ave. Port Smith, Ark.

## ROOTED CUTTINGS.

	Per 100	Per 1000
Biota fruitlandi	\$5.00	\$70.00
Biota aurea nana globosa.	8.00	70.00

BROSEMER NURSERY

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## BOXWOOD, OLD ENGLISH.

Handsome specimens, 15 to 24 ins. in

diameter and height, well shaped, 75.00 each

and up. Special price on 100.

SHADY LAWN NURSERY

Hammoncton, N. J.

## 5000 Pfizer's, size 2 1/2, pinched; price, 15c

to 20c each.

10,000 rooted cuttings, 10c each.

CHARLES J. SANDERS

Monongahela, Pa.

## NANDINA SEEDLINGS.

Ready to pot, \$20.00 per 1000, postpaid.

DUNLAP NURSERIES Knoxville 16, Tenn.

The trade's market place—

The ads in the American Nurseryman.

## FRUIT and NUT TREES

## SURPLUS FRUIT TREES.

	Per 100
APPLES—2-yr.	

1-in. caliper, 6 ft. up. \$35.00

11/16-in. caliper, 5 to 6 ft. 25.00

9/16-in. caliper, 4 to 5 ft. 20.00

7/16-in. caliper, 3 to 4 ft. 15.00

Early Harvest Winesap

Mam. Blk. Twig Bonum

Horse Stayman

Red Delicious Car. Red June

## PEACHES

7/16-in. caliper, 3 to 4 ft. 30.00

5/16-in. caliper, 2 to 3 ft. 20.00

Belle of Ga. Elberta

Greensboro Golden Jubilee

J. H. Hale Stump

## KIEFFER PEAR—2-yr.

1-in. caliper, 6 ft. up. 60.00

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9/16-in. caliper, 4 to 5 ft. 40.00

## CHERRIES—2-yr.

11/16-in. caliper, 8 ft. up. 80.00

9/16-in. caliper, 6 to 8 ft. 60.00

7/16-in. caliper, 4 to 5 ft. 50.00

Black Tartarian May Duke

Gov. Wood McClean Black

25 of a variety and size at 100 rate. Offered

subject to prior sale. Cash or C.O.D.

Write for prices on evergreens, Grapevines,

etc.

NORTH STATE NURSERY CO.

JULIAN, N. C.

LOOK!

SURPLUS 2-YR. APPLE.

Graded to A. A. N. Standards.

Now booking for Spring delivery at these

attractive low prices:

9/16-in. cal., 4 to 5 ft. \$20.00

11/16-in. cal., 5 to 6 ft. 25

3/4-in. cal. and up. 35

Will take limited contracts for growing

peach, June buds or Dormant buds, for 1951

and 1952 deliveries. Write for price list on

available tree.

PACK TRUE-TO-NAME NURSERY CO.

Phone 52-Y

McMinnville, Tenn.

FRUITS, NUTS and FLOWERING TREES.  
JUNE-BUDDED PEACH.

	Each
3 to 4 ft.	\$0.30
2 to 3 ft.	.20
18 to 24 ins.	.15
12 to 18 ins.	.10

Varieties: Ambegem, Belle of Georgia,  
Champion, Dixigem, Dixired, Elberta, Gem,  
mer's Late Elberta, Sullivan's Early Elberta,  
Golden Jubilee, Halehaven, Hiley Belle, Early  
Hiley, J. H. Hale, Indian Red, Mayflower,  
Redhaven, Red Bird, Shipper's Red.

## TWO-YEAR APPLE.

	Each
11/16-in. and up, well br.	\$0.35
9/16-in. and up, well br.	.30
7/16-in. and up, well br.	.25

Varieties: Anoka, Cortland, Yellow Del-  
cious, Dark Red Delicious, Early Harvest,  
Grimes Golden, Hackworth, All-red Jona-  
than, Maiden Blush, Lodi, Red Northern Spy,  
Red Rome Beauty, Stayman Winesap, Turkey  
Winesap, Yates, York Imperial and Trans-  
cendent Crab.

## PLUM, DAMSON and PRUNE.

	Each
4 to 6 ft., well br.	\$0.40
3 to 4 ft., well br.	.30
2 to 3 ft., well br.	.20
18 to 24 ins., part. br.	.15

Varieties: Abundance, Burbank, Bruce, Red  
June, Sapa Plum, Shropshire Damson, Stan-  
ley Prune.

## APRICOT and NECTARINE.

	Each
4 to 6 ft., well br.	\$0.55
3 to 4 ft., well br.	.45
2 to 3 ft., well br.	.30
18 to 24 ins., part. br.	.20

Varieties: Moorpark, Early Golden, Superb.

## GRAFTED PECAN TREES.

	Each
5 to 6 ft.	\$1.75
4 to 5 ft.	1.35
3 to 4 ft.	1.00
2 to 3 ft.	.90
18 to 24 ins.	.80

Varieties: Stuart, Success, Moneymaker.

## FLOWERING CRAB.

	Each
5 to 6 ft., well br.	\$0.65
4 to 5 ft., well br.	.45
4 to 5 ft., whips.	.45
3 to 4 ft., whips.	.35

Varieties: Eleyl, red; Hops, rose; Flori-  
bunda.

## FLOWERING PEACH.

	Each
4 to 5 ft., well br.	\$0.45
3 to 4 ft., well br.	.35
2 to 3 ft., well br.	.25
18 to 24 ins., branched.	.20

Varieties: Double Red and Double White.

## WHITE-FLOWERING DOGWOOD.

	Each
4 to 5 ft., well br.	\$0.90
3 to 4 ft., well br.	.55
2 to 3 ft., well br.	.40

## PURPLE-LEAF PLUM.

	Each
2 to 3 ft.	\$0.40
18 to 24 ins.	.30
12 to 18 ins.	.20

Varieties: Prunus cistena; Thundercloud.

Write for special quotations on quantity lots.

CUMBERLAND VALLEY NURSERIES, Inc.

McMinnville, Tenn.

## PEAR TREES.

10 trees or 50,000 trees.

Le Conte, Garber, Kieffer, Douglas, Bald-  
win, Orient, Pinesapple, Bartlett, Blacamp,  
Lincoln and others.

	Each
2 to 3 ft.	\$0.25
3 to 4 ft.	.35
4 to 5 ft.	.40
5 to 6 ft.	.45
6 to 7 ft.	.50
7 to 8 ft.	.55

Write us about any big order for orchard  
planting.We have a few thousand P. calleryana  
seedlings to offer this trade this season in  
sizes from 15 to 34 ins., well calipered. Ap-  
parently the best understock for long-life  
pear trees. Ask for our list. Satisfied cus-  
tomers throughout the southwest are our  
best references.

## WHITEROCK NURSERIES

Geo. M. Jeffus, Mgr.

Box N Crockett, Tex.

## GRAFTED CHINESE CHESTNUTS.

U. S. D. A.-approved varieties: Nanking,  
Melling, Kuling, Abundance, 2 ft., 75c; 3 ft.,  
\$1.00; 4 ft., \$1.25 (whips) each.Seedling Chinese Chestnuts (branched),  
1 ft., 25c; 2 ft., 35c; 3 ft., 60c; 4 ft., 80c each.Thomas Black Walnuts, 6 ft., \$1.00; 7 ft.,  
\$1.30; 8 ft., \$1.50; 9 ft., \$1.75 each.

Orders must be in lots of 10.

## HIRSCHI'S NURSERY

Oklahoma City, Okla.

Peach, Plum, Apricot, Fig, Persimmon,  
Pecan, in fact anything you might need.

Write for our price list.

FITZGERALD'S NURSERY

Stephenville, Texas

## Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

## GRAPEVINES

Twenty of the best varieties of grapes.  
Lowest wholesale prices on CONCORD,  
NIAGARA, FREDONIA. List includes fine  
table varieties PORTLAND, CACO, SHERI-  
DAN, Unusual kinds, such as GOLDEN MUS-  
CAT and CONCORD SEEDLESS.Write for prices along with complete list  
of berries.

## CONGON'S WHOLESALE NURSERY

North Collins, N. Y.

## GRAPE CUTTINGS.

Concord and Fredonia, \$4.00 per 1000.  
F.O.B. here. Tied with wire, 100 to bunch.  
Guaranteed true-to-name. Cut from our  
young, thrifty vineyard by experienced work-  
men.

## IDEAL FRUIT FARM

Stillwell, Okla.

## GROUND COVERS

## PACHYSANDRA TERMINALIS.

Strong, 1-yr., field-grown, \$65.00 per 1000.

HILLCREST GREENHOUSES, Franklin, Pa.

## HARDWOOD CUTTINGS

## HARDWOOD CUTTINGS.

From Hardy Northern-grown Shrubs and  
Trees. Delivery now. From our own plantings  
and blocks checked yearly for accuracy. Cut  
7 inches.

## Per 1000

Aronia melanocarpa 4.00

Cornus, paniculata 4.00

sibirica 4.00

lutea (yellow bark) 6.00

amomum 4.00

Foreysia intermedia 4.00

primulina 4.00

spectabilis 3.00

Elder, Golden 6.00

Cutleaf 4.00

Red-berried 3.00

canadensis 3.00

Hydrangea P.G. 6.00

Hydrangea A.G. 6.00

Privet, Amur 3.00

Regel (true) 3.00

Ibota 3.00

Honeysuckle, morrowi 3.00

bella albidia 3.00

bella rosea 3.00

lat. rosea 4.00

korolkowi 4.00

sabeli 5.00

maacki 4.00

Diervilla trifida 4.00

Philadelphus grandiflorus 3.00

M. Blanc 3.00

Bouquet Blanc 3.00

Sorbaria sorbifolia 3.00

coronarius 3.00

lemoinei 5.00

Physocarpus opul. aureus 3.00

Physocarpus opul. nanus 3.00

Spiraea, billardi 3.00

froebeli 3.00

thunbergi 3.00

vanhouttei 3.00

trichocarpa 3.00

Snowberry, White 3.00

Lilac, rothomagensis 5.00

Viburnum dentatum 4.00

Poplar, Lombardy 3.00

Willow, Niobe 3.00

Wisconsin 3.00

Golden 3.00

Pussy 3.00

Thuja pyramidalis 25.00

globosa 25.00

variegata 25.00

Packed free. Cash with order, please. De-  
livery in good order guaranteed.

## THE SCOTCH GROVE NURSERY

Scotch Grove, Iowa

## HARDY PLANTS

## STRONG, TRANSPLANTED

## FIELD-GROWN PERENNIALS.

For spring shipment.

## Per 100

Aquilegia, Scott Elliott's \$10.00

Carnation, Grenadin, scarlet-red, 7.00

dark red or mixed colors. 7.00

Delphinium, Belladonna 10.00

Bellamomum 10.00

Wrexham 10.00

Gaillardia, Burgundy, Goblin or Dazzler 3.00

## NORTH POLE NURSERY

Cornucopia, Wis.

## HARDY CHRYSANTHEMUM CUTTINGS.

It is time to think of Hardy Chrysanthemum cuttings for spring delivery. A complete list of the best varieties is now available. Request a copy on your business stationery, please.

FRED C. GLOECKNER &amp; Co., Inc.

15 East 26th St. New York 16, N. Y.

## PINK SACHET.

Introducing a new Old-Fashion Pink. Large (2-inch) single, pink flowers with maroon center. Fragrant, hardy, with good foliage. Excellent for cutting. 10-inch stems.

Doe. 100

Strong rooted cuttings \$4.00 \$35.00

PLANE VIEW N

## HARDY PLANTS—Continued

**PERENNIALS.**  
New and Standard Kinds.  
A most modern and complete selection.  
New Wholesale List now ready.  
Send for your Free Copy Now.  
**CARROLL GARDENS**

Box 15 Westminster, Md.  
**BLEEDING HEARTS.** Per 100  
Dicentra Spectabilis, 3 to 5.....\$25.00  
Dicentra Spectabilis, 5 to 8 and up.....35.00  
Dicentra Eximia, 3 to 5.....15.00  
Dicentra Eximia, 5 to 8 and up.....20.00  
J. HENDRIKS, GROWER, PORTAGE, MICH.

America's Best Source  
for Hardy Plants is  
**THE WAYSIDE GARDENS**  
Mentor, Ohio  
Write for Trade List.

**HARDY PLANTS.**  
Please write for our new list of perennial  
plants.  
**WALTERS GARDENS**  
Rt. 2 Zeeland, Mich.

See the October 1 issue of the American  
Nurseryman for list of Hardy Plants.  
**RICHARDS GARDENS**  
"Old Homestead Brand"  
Box 30 Plainwell, Mich.

**HARDY PHLOX.**  
Please ask for our new list on 1-year, field-  
grown Phlox.  
**WALTERS GARDENS**  
Rt. 2 Zeeland, Mich.

See the October 1 issue of the American  
Nurseryman for list of Delphiniums.  
**RICHARDS GARDENS**  
"Old Homestead Brand"  
Box 30 Plainwell, Mich.

**BLEEDING HEARTS.** Each  
Dicentra spectabilis, 3 to 5 eyes.....\$0.25  
Dicentra spectabilis, 5 to 8 eyes......35  
Well developed, field-grown roots.  
**CASHAR W. EVANS** Selbyville, Dela.

## HOLLY

**AMERICAN HOLLY** (Ilex Opaca).  
Liners, Specimens to 15 ft.  
Send for free booklet.

**EARLE DILATUSH, Holly Specialist**  
Rt. 25 (near Trenton), Robbinsville, N. J.

## IVIES

**IVIES**—Hardy English, both large and  
small-leaved; strong 2-in., \$3.00 per 100,  
\$75.00 per 1000; rooted cuttings, \$2.50 per 100,  
\$22.50 per 1000, Hahn's, 2-in., 8c. Baltica,  
2-in., 10c.

**JACOB SCHULZ**  
331 Cherokee Rd., Louisville 4, Ky.

## SEEDS

**NORTHERN EVERGREEN SEEDS.**  
Extracted at low temperature to preserve  
seed viability. Shipped now from our winter  
address. List sent.

**K. J. BRADEN**  
936 E. Ashley Jacksonville, Fla.

## SHRUBS and TREES

## SEEDLING STOCK.

	Per 100	Per 1000
Western Catalpa, 2 to 3 ft.....	\$2.50	\$22.50
Western Catalpa, 3 to 4 ft.....	3.50	32.50
Red Osier Dogwood, 12 to 18 ins.....	3.00	25.00
Red Osier Dogwood, 18 to 24 ins.....	4.00	35.00
Red Osier Dogwood, 2 to 3 ft.....	5.00	45.00
Russian Olive, 6 to 12 ins.....	1.55	15.00
Russian Olive, 12 to 18 ins.....	2.50	23.00
Russian Olive, 2 to 3 ft.....	5.10	48.00
Russian Olive, 3 to 4 ft.....	7.00	64.00
Osage Orange, 12 to 18 ins.....	1.25	11.50
Osage Orange, 18 to 24 ins.....	1.65	15.00
American Plum, No. 1, 3/16-in. and up.....	2.55	23.00
Black Locust, 3 to 4 ft.....	3.00	25.00
Black Locust, 4 to 5 ft.....	4.00	35.00
American Elm, 6 to 12 ins.....	.75	6.50
American Elm, 12 to 18 ins.....	1.20	10.50
American Elm, 18 to 24 ins.....	1.65	15.00
Chinese Elm, 12 to 18 ins.....	1.40	12.00
Chinese Elm, 18 to 24 ins.....	1.90	17.00
Chinese Elm, 2 to 3 ft.....	2.80	25.00

**TERMS:** Cash  
Quantity Prices on Request.

**PIPER-FILBY NURSERY**

	Per 100	Per 1000
Chinese Arborvitae seedlings, strong, 6 to 10 ins.....	\$25.00	\$250.00
Cedar seedlings, bed-run.....	25.00	250.00
Cedar seedlings, graded, strong, 6 to 10 ins.....	35.00	350.00
Chinese Elm, 3 to 5-in. cal. Write for special prices.		

**KLEIN NURSERY** Enid, Okla.

	Per 100	Per 1000
1000 Irish Juniper.....	\$50.00	\$400.00
1000 Cydonia japonica.....	30.00	250.00
3000 Japanese Ligustrum, 3c and 6c each. Many other liners.		

**THE CHALIN LEWIS NURSERY**  
P. O. Box 33 Piggott, Ark.

## LINING-OUT STOCK.

Strong, field-grown plants.

	Per 100	Per 1000
Honeysuckle, heckrotti, 12 to 18 ins.....	\$12.00	120.00
Euonymus coloratus.....	12.00	100.00
Euonymus radicans, 10 to 12 ins.....	12.00	100.00
Euonymus carrierei, large- leaved type, 10 to 12 ins.....	12.00	100.00
Lombardy Poplar (whips), 6 to 12 ins.....	2.00	18.00
Lombardy Poplar (whips), 12 to 18 ins.....	2.50	22.50
Lombardy Poplar (whips), 18 to 24 ins.....	3.00	25.00

	Per 100	Per 1000
Viburnum opulus sterile, Common Snowball.....	10.00	80.00
Euonymus coloratus.....	10.00	80.00
Spiraea foebell.....	3.50	30.00
Spiraea Anthony Waterer.....	4.00	35.00

Cash, please. No packing charges.  
**PRITCHARD NURSERIES**  
R. 4 Ottawa, Kan.

## LINERS, QUALITY PLANTS.

Spring or Fall Delivery.

	Each
Azalea, Mollis Cream, 2 to 4-in.....	\$0.08
Andromeda (Pieris), 4 to 6-in. C. X.....	.20
Choisya ternata, 8 to 10 ins. XX.....	.35
Daphne mezereum, 6 to 8 ins. X.....	.12
Daphne mezereum, 8 to 10 ins. X.....	.17
Daphne mezereum, 10 to 12 ins. X.....	.22
Daphne odora, 6 to 8 ins. frame.....	.35
Daphne odora, 8 to 10 ins.....	.45
Heather, mediterranea, 2 to 4-in. spread.....	.15
Heather, mediterranea alba, 2 to 4-in. spread.....	.15
Heather, Springwood White, 2 to 4-in. spread.....	.15
Heather, carnea, 2 to 4-in. spread.....	.15
Cypress, nestoides, X, fld.....	.20
Thuja lobb, 4 to 6 ins. X, fld.....	.17
Thuja lobb, 6 to 8 ins. X, fld.....	.20
Thuja woodwardia, globe, 6 to 8 ins. X, fld.....	.18
Skimmia japonica, X, fld, branched.....	.35

Cash with order, F.O.B. Shipped express.  
**FOUR STAR NURSERY**  
Rt. 3, Box 3529 Edmonds, Wash.

## MIMOSA.

Albizia julibrissin.

Now booking orders for future delivery at  
rock-bottom prices for clean, well grown,  
healthy stock of this popular, most beau-  
tiful, small, pink-flowering tree. Easy to  
transplant. Grows quickly.

	Per 100	Per 1000
6 to 10 ins.....	\$ 2.50	\$ 20.00
12 to 18 ins.....	4.00	30.00
24 to 30 ins.....	5.00	35.00
36 to 40 ins.....	10.00	70.00
50 to 60 ins.....	10.00	70.00
3 to 4-ft. transplants.....	17.00	100.00
4 to 5-ft. transplants.....	30.00	225.00
6 to 7-ft. transplants.....	65.00	650.00
7 to 8-ft. transplants.....	90.00	900.00

Not less than 10 at 100 rate.  
**RIEDEL PLANT CO.**  
Experiment, Ga.

Magnolia grandiflora seedlings, 1-yr., aver-  
age about 5 ins., \$65.00 per 1000, 300 at  
thousand rate. 2-yr. seedlings, 12 to 18 ins.,  
25c; 18 to 24 ins., 40c; 2 to 3 ft., 50c. Some  
magnolia leaves injured in top of plant be-  
cause of record low temperatures in Nov.  
Euonymus patens, large leaf, vine type, 1-yr.,  
rooted cuttings, about 6 ins., 10c. Euonymus  
patens, seedlings, 1-yr., 1 to 2 ft., 10c. Euonymus  
coloratus, 2-yr., cutting-grown, 1 to 2 ft.,  
15c. Pyracantha coccinea, 1-yr., rooted cut-  
tings, 6 to 12 ins., 15c. Water Oak, almost  
evergreen here, 18 to 24 ins., 16c. Willow Oak,  
12 to 18 ins., 10c. Another Oak (name in  
doubt), huge acorns, fast grower, nice tree,  
2 to 3 ft., 20c. Cash before shipment, packing  
free. F.O.B. Van Buren, Ark. Shipment until  
about April 10, HARWELL NURSERY, Van  
Buren, Ark.

Ohio's oldest nursery offers you red and  
green Barberry. Grown right. Graded right.  
Berberis thunbergi (Red-leaved Barberry).

	Per 10	Per 100
12 to 15 ins., 3-yr. Tr.....	\$2.00	\$17.50
18 to 24 ins., 3-yr. Tr.....	3.50	30.00
24 to 30 ins., 3-yr. Tr.....	4.00	35.00
Berberis thunbergi (Green-leaved Barberry), 75.....		

Cash with order. Boxing free. Est. 1877  
**CALL'S NURSERIES** Perry, Ohio

## Call Road

Ginkgo biloba, liners.

	Per 100	Per 1000
2 to 4 ins.....	\$3.00	\$25.00
4 to 6 ins.....	4.00	35.00
6 to 8 ins.....	5.00	45.00
Berberis thunbergi Atro. (Red-leaved Bar- berry), transplants. Inspection certificate No. 75.....		
12 to 15 ins.....	13c each	
15 to 18 ins.....	18c each	

Cash with order. Packing extra.  
**EDMOND L. BABCOCK NURSERY**  
32 West Ave. Danville, N. Y.

## CHINESE ELM TREES.

4 to 6 ft., \$20.00 per 100.  
6 to 8 ft., \$45.00 per 100; 25 at the 100 rate.  
2 to 4-ft. liners, \$5.00 per 100.

**GRUNDY'S GARDENS**  
Box 325 Anton, Texas

## LINERS, SPRING DELIVERY.

	Each
Viburnum burkwoodi, 4 to 6 ins.....	\$0.12
Viburnum burkwoodi, 6 to 8 ins.....	.17
Viburnum burkwoodi, 8 to 10 ins.....	.21
Daphne enereum.....	.12
Daphne odora.....	.15
Juniperus tamariscifolia, 2 to 4 ins.....	.10
Juniperus tamariscifolia, 4 to 6 ins.....	.15
Juniperus tamariscifolia, 6 to 8 ins.....	.18
Lithospermum (Heavenly Blue).....	.15

Terms: Half of amount with order, balance  
C.O.D.; packing at cost, shipped express.  
**FOUR STAR NURSERY**  
Rt. 3, Box 3529 Edmonds, Wash.

## SHADE TREES.

	Each	Each	Each
	per 10	per 100	per 1000
4 to 6 ft.....	\$0.45	\$0.40	\$0.35
6 to 8 ft.....	.75	.70	.65
8 to 10 ft.....	1.00	.90	.80
1 to 1 1/2-in.....	1.50	1.40	1.30
1 1/2 to 2-in.....	2.00	1.85	1.70
2 to 2 1/2-in.....	2.50	2.35	2.20
2 1/2 to 3-in.....	3.00	2.80	2.60

**FARMER NURSERY**  
Plainview, Tex.

## RED JAP. MAPLE SEEDLINGS.

Selected 100 per cent seed. (Sturdy.)

	Per 100	Per 1000
8 to 10 ins. XXX, 2-yr.....	\$30.00	
6 to 8 ins. XXX, 3-yr.....	25.00	\$225.00
8 to 10 ins. X, 2-yr.....	25.00	
6 to 8 ins. X, 2-yr.....	22.50	200.00
6 to 8 ins. X, 1-yr.....	18.00	150.00

Delivery spring or fall.  
**ELWOOD HUBBS**

204 Delaware Ave. Paimyra, N. J.

## LINING-OUT STOCK.

We offer Chinese Chestnuts; Native Shrubs,  
Trees and Evergreens; Flowering Peach and  
Ornamental Plums, and Fruit and Shade  
Trees. Top-quality, dependable plants at  
reasonable prices.

**GLOBE NURSERIES**  
Box 249 McMinnville, Tenn.

Quick — Convenient — Cheap!

Selling through the Classified Ads

of the American Nurseryman.

## ROSEBUSHES

## ROSEBUSHES.

## CALIFORNIA-GROWN.

In order to overcome the recent disastrous  
freeze to the Texas rosebush industry, we  
were fortunate enough to secure CALI-  
FORNIA-GROWN Rosebushes for our regular  
customers. The following varieties are in  
surplus and will go to the first who ask  
for them.

200 Autumn
1500 Condesa de Sastago
1500 Christopher Stone
1200 Duquesa de Penaranda
1400 Etoile de Hollande
1100 Floradora
1300 Girona
1400 Hadley
1350 Hinrich Gaede
1200 J. O. Thilow
1700 K. A. Viktoria
1400 McGredy's Yellow
1600 McGredy's Scarlet
1800 Mrs. P. S. duPont
1400 Mrs. E. F. Thom
1250 Night
1500 Pres. Hoover
1400 Poinsettia
1300 Red Tallman
1700 Pink Radiance
100 Red Hoover
300 Rowena Thom
200 Contrast
200 Dame Edith Helen
200 Golden Dawn
1500 Golden Rapture
200 Margaret McGredy
200 Red Ripples
1700 Red Radiance
1200 Rose Marie
1300 Dainty Bess
1600 Soeur Therese
1500 Tallman
2000 Frau Karl Druschki
800 Caledonia
300 E. G. Hill
140 Los Angeles
250 McGredy's Ivory
100 Sunkist

## CLIMBERS.

400 Cecile Brunner
1000 Condesa de Sastago
800 Etoile de Hollande
5000 Paul's Scarlet
1500 Hadley
1200 Mrs. E. F. Thom
1000 Tallman
700 Pres. Hoover
1200 Red Tallman
900 Rose Marie
250 Belle of Portugal
200 Snowbird

No. 1 grade, 55c each;  
No. 1 1/2 grade, 47c each.

Prices F.O.B. Winnabro, Texas.

Terms: 25 per cent with order, balance be-  
fore shipment, or C.O.D.

Rosebushes will be shipped any time you  
desire after January 15.

**RUSSELL WILSON NURSERY**  
Winnabro, Texas



WHY BE SATISFIED WITH LESS THAN THE BEST? CO-OPERATIVE ROSE GROWERS is composed of some fifty nurserymen who take great pride in producing the best in 2-yr. rosebushes. Co-Op rosebushes are dug and stored in cold-storage rooms, still another added expense, but assuring you, as always, the best quality roses at reasonable prices. Why run the risk of using roses that have been subjected to freezing temperatures?

Complete price list of bare-root and packaged roses available to licensed nurserymen, florists and dealers only. Write today.

#### CO-OPERATIVE ROSE GROWERS

Wholesale Exclusively

Phone 2-0122

P. O. Box 808 Tyler, Tex.

#### ROOTED MULTIFLORA SEEDLINGS.

In lots of 1000 to 5000 only \$50.00 per 1000.

In lots of 5000 and up only \$30.00 per 1000.

LIMITED SUPPLY.

ORDER TODAY!

#### CO-OPERATIVE ROSE GROWERS

Wholesale exclusively

Phone 2-0122

P. O. Box 808 Tyler, Texas

#### VEGETABLE ROOTS

500 CANADIAN RHUBARB.

Large divisions.

\$20.00 per 100; lot for \$85.00.

Packing free.

F.O.B. Marshalltown, Ia.

WHELOCK WILSON NURSERY

Marshalltown, Ia.

#### VICTORIA RHUBARB ROOTS.

1 to 1½-in. \$35.00 per 1000; 1½-in. and up, \$45.00 per 1000. Boxing free. Only a few thousand left.

ASHCRAFT PLANT NURSERY

Copemish, Mich.

#### MISCELLANEOUS

1000 Kentucky coffee trees. 50,000 Amur River North Privet, 7-in. cuttings, \$2.50 per 1000. Many others. 1000 lbs. Kentucky coffee beans, 25c per lb.

Sycamore (Platanus), 45c per lb. Privet seeds, 90c per lb.

SCHROEDER NURSERY CO.

Granite City, Ill.

#### WOOD LABELS

DAHLIA OR TREE LABELS.

Priced per 1000

plain painted

3½x½ ins., notched, not wired... \$2.50 \$3.00

3½x½ ins., wired (copper)... 3.30 4.10

#### POT LABELS.

4x½ ins. (cartons 1000 each)... 3.30 3.95

6x½ ins. (cartons 1000 each)... 3.60 4.30

6x½ ins. (cartons 1000 each)... 3.90 4.85

Priced per carton.

8x½ ins. (cartons 500 each)... 3.00 3.60

10x½ ins. (cartons 500 each)... 3.50 4.25

#### GARDEN STAKES.

Priced per carton.

8x ¾ ins. (cartons 250 each)... 2.50 3.00

10x ¾ ins. (cartons 250 each)... 2.75 3.25

12x1½ ins. (cartons 100 each)... 1.75 2.00

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

YOHO & HOOKER, YOUNGSTOWN 2, O.

If you don't find it listed here

Try a Wanted ad in the next issue

of the American Nurseryman.

#### SUPPLIES

Made from a good grade of Southern Yellow Pine, since Cypress is not available.

Standard specifications, inside measurements.

#### KNOCK-DOWN FLATS.

16x12x2½" ..... \$18.82 per 100

16x14x2½" ..... 24.98 per 100

20x14x2½" ..... 24.56 per 100

20x14x3" ..... 28.68 per 100

22½x15x2½" ..... 28.14 per 100

22½x15x3" ..... 32.63 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

#### BARGAIN CYPRESS FLATS, K.D.

Made from No. 2 grade Red Cypress. Has some defects but guaranteed all usable pieces. Orders must be in units of 100-200 and up.

Size 20x15x3 ins. inside, \$31.50 per 100. We ship same day, subject to present stock.

Attach check to order, please.

YOHO & HOOKER, Youngstown 2, Ohio

#### WISCONSIN'S QUALITY SPHAGNUM MOSS.

Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.

Trucked when feasible.

WARRENS MOSS CO., Box 7, Warren, Wis.

Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-new Low-cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, garnished with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN

P. O. Box 946

Columbus, Miss.

E. A. FARLEY

3333 Gentilly Blvd.

New Orleans, La.

#### ELECTRIC PROPAGATING KITS FOR GREENHOUSE BENCHES OR HOTBEDS.

Each contains long-lasting HEATSUM CABLE, SOIL THERMOSTAT, PILOT LAMP AND THERMOMETER.

Sq. ft. Length and

Unit heated Watts Volts No. Units Price

"A" 20 200 110 1 60-ft. \$14.00

"B" 40 400 110 2 60-ft. 19.50

"D" 80 800 110 1300-ft. 41.00

All prices F.O.B. Seattle.

#### COLDFRAME FROST PROTECTION.

Same equipment will protect 50 per cent more area. LITERATURE ON REQUEST.

L. N. ROBERSON CO.

1539 E. 103rd St. Seattle 55, Wash.

#### MINNESOTA WHITE CEDAR FLATS.

12x15x2½" ..... \$18.25 per 100

14x20x2½" ..... 22.00 per 100

14x20x3" ..... 25.00 per 100

Other sizes quoted on request. Also crating and other lumber. Aspen and Pine. F.O.B. Cook, Minn. Please attach check.

H. C. HILL & SONS, Cook, Minn.

#### PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.

J. GARLAND HILL, Dept. A, Seaford, Del.

#### PAY LESS FOR WOOD LABELS.

High quality, fully guaranteed. Write for prices and samples. ANTHONY & CO., Escanaba, Mich.

Turn Stock into Dollars

by Listing It in the Classified Ads

of the American Nurseryman.

#### WANTED

WANTED.

#### YOUR OFFERINGS OF

Unrooted and Rooted Cuttings

Ilex, All Varieties.

Box 3316 SKYLINE GARDENS Birmingham, Ala.

#### WANTED.

Finished nursery stock and liners, including Crimson King and Japanese Red Maple.

Mail prices. EVERGREEN NURSERY

Rt. 4 Farmington, Mich.

#### WANTED.

Philadelphus lemoinei, lining-out, 2-yr. plants. Can trade for Philadelphus virginialis.

EUGENE A. de ST. AUBIN & BRO., Inc.

Box 1 Addison, Ill.

#### NEBRASKA MEETING.

[Concluded from page 11.]

speaker of the evening was W. H. Brokaw, Lincoln, head of the extension service, University of Nebraska. He recently returned from a government agricultural mission to Germany. His subject was "Agriculture in the Schwabian Alb," and he used colored slides to illustrate his interesting talk.

The following morning the association was favored with a talk by Harold S. Reid, of Holm & Olson, Inc., St. Paul, Minn., on "Landscape Gardening," in which he covered such items as site, house location, tree arrangement, shrub grouping and color combinations. He emphasized the importance of building a good grade. He mentioned the value of flowering crabs. He told of the correct use of materials to obtain the illusion of depth in a garden and of how incorrect use can give the

opposite effect. He mentioned the importance of the first interview with a client before proceeding to draw a plan. Mr. Reid said that men making plans should be well informed for this task. He advocated a man be trained on a complete landscape course at a university and receive supplemental training from his employer.

In the afternoon, one of the association's own members, Harold Glissman, Boys Town, gave a talk entitled "The New Picture in Lawn Construction and Maintenance." He told about his visits to various grass test plots and his own experiments and methods. He urged that there be more experimenting with new varieties of grasses for lawns at the state experiment stations and at nurseries. Mr. Glissman named several varieties that he considers good and some promising. He mentioned the whirlwind type of mower and warned not to cut lawns too short in eastern Nebraska. He said the lawns at Father Flanagan's Home at Boys Town were kept cut to about an average of two and three-quarters inches and that they were cut about every four days. He said that homeowners should not do their grass cutting on a weekly basis but every three or four days. Mr. Glissman emphasized the importance of aeration of established lawns by puncturing holes through the sod so water can penetrate to the roots more quickly and easily.

President Baumann then presented newly elected President Charles Hurlburt. He announced the names of the legislative committee and said that the other committees would be appointed in the near future.

TWO Pennsylvania nurseries which suffered damage to stock in the Thanksgiving week-end storms were LaBars' Rhododendron Nurseries, Stroudsburg, and the Wagner Evergreen Nursery, Pocono Lake. Over 100 trees at LaBars' nursery and the adjoining Laurelwood cemetery were mowed down, with resulting damages estimated at over \$5,000. Frank LaBar, president, said some of the trees were sixty-five feet tall, including giant oaks. Others, part of the nursery stock, were ripped from the ground or snapped off in the 76-mile-an-hour wind. Nursery stock in the Wagner nursery, located on the Pocono Lake preserve of huge timber tracts, was damaged when some of the big trees fell on it.

## COVER ILLUSTRATION.

## Taxus Media Hatfieldi.

The yews, or taxus, are, without a doubt, the most beautiful and useful group of small to medium narrow-leaved evergreens that we have for landscape plantings in the east and midwest. Three species of the yews are the most common. These are *Taxus baccata*, the English yew; *Taxus cuspidata*, the Japanese yew, and the hybrid between these two species, *Taxus media*, the Anglojap yew. Actually, few plants of the species, especially of *Taxus baccata* and *Taxus media*, are being produced in nurseries today. Many varieties have been introduced, and these selected types largely constitute the taxus grown in nurseries. At least 100 different types have been introduced into the trade at one time or another. It is apparent from the collection at Ohio State University, which contains most of these types, that duplicates are among them. There are, however, many good types which should be propagated and used in landscape plantings.

*Taxus* is the ancient Latin name for the yew. The species *Taxus media* originated about 1900 as a result of a cross between *Taxus baccata* and *Taxus cuspidata*. This cross was made by T. D. Hatfield, superintendent of the Hunnewell estate at Wellesley, Mass. In the group of seedlings resulting from this cross was one that was dense, broad, pyramidal in shape and differing somewhat in foliage. This seedling was named *Taxus media hatfieldi* after the originator. Today, it is one of the most popular of the yews. Several forms of it are now carried in the trade.

As far as I have been able to learn, the original *Taxus media hatfieldi* seedling was a plant of broad, pyramidal habit of growth tending to form a central leader and bearing dark green, rather short leaves arranged more or less radically on the stems. Often plants of the Hatfield yew are more pyramidal than the specimen shown in the cover picture. Some nurserymen are growing plants under the name of Hatfield yew that are more upright in habit of growth, with branches that are upright or slightly spreading. This type is not in accordance with the description of the original Hatfield yew.

The taxus is tolerant of a wide range of soil types, but prefers good soil that is well drained. Lack of proper soil aeration brought about by too deep planting or overwatering is often fatal. It is tolerant of

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## FOR SALE

Will sell half or whole interest in going Louisiana nursery, 12 acres choice land under fence, 2 modern homes in perfect condition, packing house, storage room, propagating house, numerous hotbeds, 1949 International Harvester tractor with implements, 1,500 feet galvanized pipe bringing water from deep flowing well to fields. Owner connected with large Georgia retail outlet and cannot devote full time to this business. Excellent opportunity for good grower. Write for full particulars. ARNER FLOWERFARM, Slidell, La.

## FOR SALE

Nice nursery in one of west Texas' growing cities; large territory to serve. Five-room modern home; 45 acres of land, with irrigation well equipped with electric pump. Located on highway near the city. All fixtures, machinery and tools go with this place. A going business making money and expanding.

For information, write R. L. COOK, P. O. Box 1026, Big Spring, Tex.

## FOR SALE

A bargain! Going nursery in a growing city. Good land, also some nice timber. Well established business. Reason for selling, death of husband.

MRS. DAVENPORT GUERRY  
Wesleyan Drive      Macon, Ga.

## FOR SALE

Northern Nut Tree Nursery.

Chance for man with some capital to step into a going enterprise. 7000 customers, 20,000 on mailing list. Good supply of stocks and grafted trees. Write for particulars. Address Box 762, care of American Nurseryman.

## FOR SALE

Buyers for nurseries of all types in any part of the country are reached through an ad in this department, the trade's real-estate and business market. The cost is only \$3.00 for 1-inch space.

**FOR SALE**—\$10,000.00, total price, actual wholesale inventory. Grossed \$35,000.00 in 1949. 1 1/4-acre growing ground; 8-room modern house; large, roofed lath house and storage building; total rent, \$60.00 a month; located in fastest-growing city in the U. S. Ralph Hunn, Nurseryman, 1031 Sunset Rd., Albuquerque, N. M.

sun or shade. The most troublesome pests are taxus mealy bug, leucanium scale and the black vine weevil. Parathion has been effective in controlling the first two insects, and DDT or Chlordane the last-mentioned. Loro has also been a standard spray material for control of taxus mealy bug.

Propagation is accomplished mostly by cuttings which can be taken in late July or August and handled in outside frames, or taken in December to February and handled in a greenhouse.

The Hatfield yew may be used in foundation plantings and for border, group and hedge planting.

L. C. C.

## FOR LEASE

In Westchester County, 40 miles from New York City, within 10-mile radius, are many fine country homes of New York City businessmen.

700-foot frontage on Route 6 (a very important highway), about 3 1/2 acres, plus ample parking space. Highly suitable for retail nursery, greenhouse, garden shop. Long-term lease, renewal options. Inquire:

A. L. SHONGUT  
Mohegan Lake, N. Y.

## HELP WANTED

Experienced nurseryman for digging orders. Must know plants, evergreens, shrubs, etc., how to dig, ball, burlap and platform. Excellent job, good salary and bonus. Opportunity for advancement for right party. Steady year-around work with old, reliable nursery. Write qualifications and time available for personal interview to H. K. RIBSAM NURSERIES, Inc., P. O. Box 100, Trenton, N. J.

## HELP WANTED

Opportunity for aggressive man who can propagate and produce good stock. Only high-type applicant will be considered. General information exchanged. Please address L. E. YOUNG, 1400 Palmyra Ave., Richmond 22, Va.

## HELP WANTED

Landscape foreman for housing project and nursery operations. Unusual opening for aggressive man. Opportunity for part interest to right party. Permanent. Near Baltimore, Md. State age, experience, etc. Address Box 752, care of American Nurseryman.

## HELP WANTED

Experienced cellar foreman for large midwestern nursery. Knowledge of all phases of nursery operations desirable. Address Box 768, care of American Nurseryman.

Mention The American Nurseryman when you write.

NOVEMBER 26, 1950, was opening day for Herschel Florists & Nursery, 4224 Herschel street, Jacksonville, Fla. Mrs. Charles Sawyer and Mrs. Lee Harris are the shop's managers.

WILLIAM KRAAK, of Kraak's Nursery, New Orleans, La., recently opened a plant department in Schwegmann's super market on the Air Line highway just outside the city. Charles Davis is manager.

NURSERY and greenhouse operations have been started at 925 Phosphor avenue, Metairie, La., by Mr. and Mrs. Elsas Rocquin, who plan to grow landscape shrubbery and plants for retail florists.

## NAME MUMS FOR GENERALS.

Three hardy new chrysanthemums, asserted to be as stalwart and meritorious as the famous generals for whom they are named, are being introduced by Corliss Bros., Inc., Gloucester, Mass. General Marshall, General MacArthur and General Bradley are the names of these three distinctive mums.

Each plant produces flowers lavishly from August to heavy frosts and provides cut flowers for many weeks, according to the introducer. The stock plants, being left in the field without cover over two winters in vigorous New England weather, showed no signs of weakness. This, in itself, indicates their hardiness.

These new chrysanthemums are of the double Korean type, hardy and tough. The parent plant is the result of several Korean crosses with other earlier-flowering mums and the only one selected from many hundred. The others retained the Korean habit of not blooming until October. The parent plant, after wintering in the field two years, produced its first blooms July 5 and continued until late November.

Seeds from the parent plant produced several hundred seedlings, and only two of them showed the same characteristics as their parent. These three plants have all the desired traits—long-lasting and frost resistant blooms, beautiful form, profuse flowering, rich dark green and healthy foliage and extreme hardiness, says Cliff Corliss.

The new varieties have colors not found in summer-flowering mums today nor the later-flowering Korean types. The introducer's descriptions of them follow:

"Chrysanthemum General Marshall is different in coloring than any other mum we have ever seen. The first impression is that each petal is bright old rose edged with gold, which appears to glisten in the sun. Close examination reveals that the first several central rows of ray florets are a rich blending of deep old rose, purple and gold, with their tips slightly incurved, boat-shaped and blunt, exposing the light buff reverse, and the tips of the expanded petals in the outer rows are recurved and less conspicuous. Two hundred or more petals make up the 2½-inch to 3-inch blooms in full clusters on sturdy, self-supported stems, well branched from the base.

"Chrysanthemum General MacArthur is a deluge of glowing copper-red. The more expanded flowers are English-red lightening to

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makes costly insecticides  
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Single wheel truck if specified.

Rubber tires optional



### Paragon Sprayer No. 3

delivers a uniform spray 30 to 40 feet from the nozzle and completely covers an area of more than 1200 square feet. It protects a full-grown tree as easily as a seedling or a potted plant.

The Paragon pump is entirely above the solution. Strainer reaches to the very bottom of the container and is cleaned by every stroke of the pump handle. Agitator prevents solution from settling in container or clogging nozzles. Wide wheel rims make this sprayer stand steady on uneven ground.

### Stop pumping... keep spraying...

**Paragon Sprayer No. 3-P** has auxiliary compression tank bolted to frame of truck. A few strokes at the pump handle build up enough reserve pressure to last quite a long time after you stop pumping.



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For larger operations we offer Paragon Sprayers powered by electric motors or gas engines.

Write for catalog and prices on the complete Paragon line.

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Improved performance with

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Write for descriptive folder and prices and name of your nearest dealer.

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AMERICAN NURSERYMAN.

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**HANDLES 40-inch BALL—1500 lbs.**

**SPECIFICATIONS**

- Specially designed curved nose.
- Electrically welded—strong, sturdy.
- Equipped with three 4-ply 16-inch tires.
- Over-all width, 45½ inches.
- Over-all height, 7 feet 9 inches.
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- Attractive, professional appearance.

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Truck comes equipped with two tapered roller-bearing main wheels and ball-bearing wheel in swivel for sturdy service when used as dolly or trailer. Also available with three ball-bearing wheels at slightly lower cost.

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GRINDER  
and  
SCREEN**

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**Grinds, or  
Mixes, or  
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**Discards Rocks and Trash**  
Grinds manure, sod, tough and wet materials through rollers. Screens through perforated screens. Makes perfect compost of any material used for compost no matter how hard or wet or stringy. Ruggedly built for hard usage and to break up hard and tough materials. Long life and low operating cost.

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Tests for  
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Your surest guide to better crops, higher market prices. Sudbury Soil Test Kits show right kinds and amounts of fertilizers, also acidity. You can even test the soil where crops are now growing in benches or fields. Reliable—Easy to use. Same kit furnished government depts., florists, nurseries, etc. Streamline welded steel chest—makes hundreds of tests. Full instructions. New low price, \$24.95 postpaid or C.O.D. plus postage. Money-back guarantee.

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**PROTECT YOUR EVERGREENS,  
SHRUBBERY, FLOWERS AND LAWN**  
Ornamental design adds to beauty of yard or garden.  
Self-Supporting—No Stakes or Posts!  
Easy to set up and just as easy to remove.  
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## TRUCK DECALS

Lettering and trade-mark reproductions made for your trucks, agent autos, etc. Easy to apply, distinctive uniform advertising, economical for small or large fleets.

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## Ideal Garden Gadgets...

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orange rufous (yellowish-red) often with a tinge of yellow near the tips and light orange-yellow reverse. The glowing 2½-inch to 3-inch composite flowers are completely double, decorative, with 200 or more petals or ray florets, recurving from the center and in some flowers exposing a small number of yellow disk florets. The stems are profusely branched, upright, rigid and graceful.

"Chrysanthemum General Bradley is an amazing color harmony and the parent plant of this group. The half-opened flower resembles iron rust in color, gradually opening to dark apricot-buff and the outer rows of petals becoming flesh-pink. The reverse sides are lighter apricot-buff in partly opened flowers shading to seashell-pink in the outer petals. The 2½-inch flowers are composite with full center, known as a decorative double type, containing 100 or more petals or ray florets, with tips that are boat-shaped and blunt. The plant is well branched from the base, with numerous lateral branches, and has stems with a distinct purplish color."

### WISCONSIN MEETING.

[Continued from page 10.]

Consequently, the spread of oak wilt is being prevented, with some success, by poisoning healthy trees around wilted ones or digging trenches to separate them. A root cutter has been developed, with a rock plow knife inverted on a fire plow, pulled by a caterpillar tractor. This will travel about 100 feet per minute and cut through the soil to a depth of three to four feet. As most of the roots are in the upper layer of the soil, this may prove the most economical device.

### Selling by Plans.

The concluding speaker, Thursday afternoon, was Prof. G. W. Longenecker, department of horticulture, University of Wisconsin, whose topic was "The Use of Plans in Selling the Job." Sketches of plans always make easier the nurseryman's job of selling the landscape planting. On smaller jobs, such plans or sketches must be made quickly and simply so as not to be too expensive. He recommended the paced survey and the use of coordinate paper on the job to help make plans quickly and cheaply. If the nurseryman or salesman measures his stride, he can step off distances quite accurately and chart them immediately on the squares of the paper.

As the ordinary person has difficulty visualizing flat plans, elevation

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3 1/2" x 3/4"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:

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500 for... 7.50    100 for... 2.00

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Write for samples.

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drawings are useful. He mentioned a landscape salesman who mounted tracing paper on the glass of a camera facing a house and sketched in the plants he recommended, working quite rapidly.

In a series of slides showing plans for home grounds of various types and examples of good and bad planting, Professor Longenecker developed his points interestingly.

### Complaint on Tree Sales.

At the brief concluding business session, the association voted to send a letter to the Milwaukee city council calling attention to alleged selling of city nursery stock by city forestry employees. Anthony A. Singer, secretary-treasurer of Singer Bros., Inc., had asked the association to request the city council for a hearing on the matter. Proposal to send the letter ensued, and its preparation was left to Secretary Thomas S. Pinney, Ed Eschrich and Mr. Singer.

### A. A. N. Chapter Meets.

At a brief meeting of the Wisconsin chapter of the American Association of Nurserymen, now numbering thirty-two members, Ed Eschrich was elected a delegate to the national convention in July, with Laurence J. Holmes to serve as a second delegate if the chapter should be eligible for additional representation. As alternates were elected J. P. Foster and Howard Anderson.

The A. A. N. president and vice-president, Wayne Ferris and John Wight, spoke on membership in the national association and on the "Plant America" promotional program.

Officers of the chapter were re-

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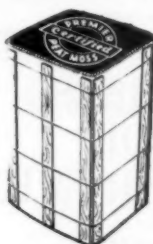
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Simply dissolve and water all your houseplants, garden flowers, vegetables, shrubs or lawn. Produces stronger plants, more and larger flowers and fruit. Excellent for starting seedlings, cuttings, transplants. Clean, odorless. Won't burn foliage or roots if used as directed. Contains all nutritional elements complete and balanced—plus vitamin B1—Instantly available. Results sure. Sell HYPONEX to your customers.

1-oz. packet ..... 10¢—packed 22 to case—wt. 7 lbs.  
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Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

BUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

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## Salem 30-in. FERTILIZER SPREADER

A Larger Model for  
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- Steel construction with reinforced hopper.
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All models are equipped with patented, automatic shut-off feed control—Just lift the handle and the flow of fertilizer stops.

Write for information on other models.

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Mention The American Nurseryman when you write.

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## GRAFTING and NURSERY KNIVES PRUNING SHEARS

Best Quality

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*Immediate Shipment*

6 or more assorted knives and shears priced at dozen rate.

Write for Illustrated List.

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ected as follows: President, Ed Eschrich; vice-president, Howard Anderson; secretary-treasurer, Thomas S. Pinney.

### Trade Exhibits.

In an adjoining room were eight trade exhibits, more spacious than last year, staged by the D. Hill Nursery Co., Dundee, Ill., grafted evergreens; R. L. Ryerson Co., Milwaukee, equipment and supplies; Ideal Irrigation Co., Port Washington, Wis., sprinkler equipment; W. G. Sluggs Seed Store, Milwaukee, insecticides and fertilizers; Golf & Garden Equipment Co., Elm Grove, equipment and supplies; Armour & Co., Chicago, Vertagreen fertilizer; Kellogg Seed Co., Milwaukee, grass seeds and fertilizers; John Rauschenberger Co., Milwaukee, rope and twine.

### Convention Notes.

Robert H. Gieringer was complimented not only on the handsome basket of flowers he provided for the speakers' table, but also on the flocked evergreens which flanked the dais. Overhead appeared the A.A.N. banner, "Plant America."

E. L. Chambers, state entomologist, was vacationing in California while his assistants ably appeared on the program.

Mr. and Mrs. L. L. Kumlien left Janesville, Wis., December 12 to spend the winter at Lake Worth, Fla. Their son will look after the nursery meanwhile. He and Mrs. Kumlien gave the president able assistance in the smooth running of the convention.

### GARDENERS' CONFERENCE.

The Master Landscape Gardener's Association of Milwaukee held its third annual conference December 8, adding its voice to that of the Wisconsin Nurserymen's Association in complaining against the sale of city nursery stock by some city forestry employees. About fifty attended. Elected chairman was Alex Klokner, Klokner Bros., Inc., Wauwatosa.

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16x16 ins. to 40x40 ins.

Mesh Cotton Net Squares, 32x32 ins.

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More - Much more -  
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NO3

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OBTAIN MAXIMUM CROP YIELDS  
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The Complete Simplex Soil Test Outfit is practical for use in any locality—requires no waiting—allows for frequent testing.

Contains all the solutions and apparatus necessary for 100 to 300 soil tests for each of 15 important soil chemicals including trace elements, and tissue tests for Nitrates, Phosphorus and Potassium. P.O.B. Cleveland \$36.00—Complete solution replacements only \$18.00. Other Simplex Soil Test Outfits \$25.00 and \$16.00. The Home at \$6.50 and Solitex at \$1.25 make excellent resale items.

All prices subject to change.

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PLASTIC—DIRT WILL NOT STICK

Designed by a commercial grower. Ideal for transplanting small plants—onion sets, etc.

Will save hours. Silken smooth—wear resistant—stainless. Thoroughly tested and

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3/8" by 5/16" Postpaid \$1.

**GRO-QUICK Mfg. Co.** 388 W. Huron St., Chicago 10, Ill.



With him on the committee preparing for the day's program were Kenneth Greaves and Del Lied.

Theodore Strothman, West Allis, and Robert Altdorfer, Madison, won the shrub identification contest, both having perfect scores in giving the correct botanical names of thirty specimens of shrubs.

Discussion on bidding on jobs was led by Kenneth Greaves. Talks were given on herbaceous and woody plants for shady places, by John Voight, supervisor of the Whitnall park arboretum, and on chrysanthemums for Wisconsin, by John C. Gartman. Fond du Lac. H. E. Halliday, of the state entomologist's office, talked on the identification and control of leucanium scale and red mite.

#### NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 988. Chrysanthemum plant. Vincent R. DePetris, Grosse Pointe Farms, Grosse Pointe, Mich., assignor to DePetris, Inc. A new and distinct variety of chrysanthemum plant characterized as to novelty by the unusual and distinctive raspberry-apricot coloring of its blooms, its habit of growth, sturdy upright stems and glossy dark green leaves.

No. 989. Gardenia plant. Roderick I. McLellan, Hillsborough, Calif., and Norman B. Morrow, San Bruno, Calif., assignors to E. W. McLellan Co., Colma, Calif. A variety of gardenia plant, characterized particularly by its being a tetraploid, having as distinguishing characteristics relative to the grandiflora variety broader, heavier and flatter leaves; shorter and thicker internodes and heavier nodes; a greater proportion of exceptionally large, perfect flowers; more petals and an extra row of petals in the average flowers, which petals are broader and thicker; heavier corollas and calyxes, with the latter being coarser and thicker; a more compact and stiffer plant as a whole, having thicker stems and heavier and coarser roots.

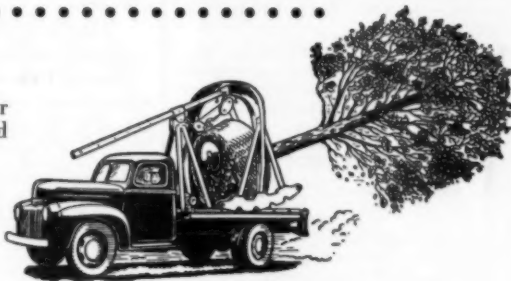
No. 990. Philodendron plant. Henry Frank Bohne, Middletown, O. A new and distinct variety of philodendron plant, characterized by dense foliate of cordate-cirrose leaves, with short petioles and with variegated opaque and translucent patternless green markings.

No. 991. Rose plant. Hendrikus Antonie Maria Verschuren, Haps, Netherlands, assignor by mesne assignments to C. W. Stuart & Co., Newark, N. Y. A new and distinct variety of hybrid polyantha rose plant of the floribunda type, characterized as to novelty by the contrasting colors of the flowers, by the change of the color of the blooms from the bud stage through the developments to the full-blown stage and by their intense and distinct fragrance.

NEW address of Richard F. Starke, landscape man, is 32325 Detroit road, Avon, O. He was formerly at 394 Bradley road, Bay Village.

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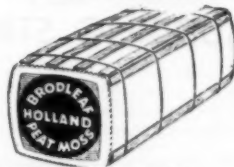
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## PLANT NOTES.

[Continued from page 19.]

those recommended because of a long blooming habit are almost useless here because of their brief show of flowers.

That is not true, however, of Campanula macrostyla, an annual from Mount Taurus, in Asia Minor. The literature would lead one to believe that it is more curious than beautiful, but experience here on several occasions shows that it is decidedly worth space in our gardens, if for no other reason than that it supplies color during the difficult month of August. It might be, though, that its peculiar color, lilac-purple, veined with violet, may not appeal to some. That brief color description does not do the plant justice, for the color deepens toward the edges of the corolla, and the prominently long and large style (hence the specific name), which is gray to brownish in color, according to its age, adds a distinguishing character to a really distinctive flower.

### Helenium.

After going through another fall season and visiting two gardens where much was made of heleniums, I am reminded of their value in the late summer and autumn for all who appreciate these plants. They are becoming more useful as time goes on, too, for plant breeders are introducing improved varieties every year. In fact, it makes no difference at this stage of the plant's evolution whether a gardener wants his plants light or dark-colored, because the wide-awake grower can supply all needs from the following named varieties.

If the call is for a light shade, it can be supplied with the superb Madame Canivet, and the call for a really dark color can be met with the dark red-brown Peregrinum. Between these two extremes will be found many other pleasing shades from the gold-encircled red of Braungold to the bright orange-yellow, usually red-flaked, Chipperfield Orange. All the kinds named have the added virtue of blooming from June or early July, depending upon latitude and exposure, until frost puts a stop to the performance.

Either the catalogs and other literature consulted are wrong or I do not know helenium culture, for they invariably recommend a sunny situation. That would be quite right, according to experience here, if the plants were assured an abundance of moisture, as along a stream bank or in a half bog, where they are so often found in nature. They cannot,

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however, stand full sun in the dry, sandy soil of this garden, and I suspect they react in the same way elsewhere, for I noticed Chipperfield Orange growing two feet tall in one of the gardens visited, when it should reach the stately height of five feet, if given a rich, moist soil. It may not grow quite five feet tall in a dry soil in shade, but it will be taller and grow better than when exposed to full sun without a constant supply of moisture.

To enrich the soil for heleniums, I know of no full substitute for an abundance of well rotted manure; however, the combination of leaf mold and a complete commercial fertilizer is almost its equal. Rest assured, though, that the ultimate in helenium beauty cannot be had without a rich, preferably moist soil. Propagation is from division in early spring, by choice.

#### **Thalictrum Dip. Hewitt's Double.**

I have read for years, about fifteen to be exact, about the double-flowered meadow rue which heads this note, but had commenced to give up hope of ever seeing it until I spied it in a Canadian garden last summer. And the wait was worth it! I mention it now merely as an incentive for some grower in the United States to import it for our gardens.

I had meant to give a brief description of the plant as it appeared to me last summer, but find better the following from a report of the Royal Horticultural Society exhibition of August 4, 1937, where it won an award of merit:

"The sprays shown were vigorous, with numerous flowers, very double, but so small and gracefully posed that the increased number of petals only adds to the lasting beauty of the flower when cut. . . ."

#### **Campanula Latifolia.**

A beginner in hardy plant culture says that he is growing the peach-leaved bellflower in four forms and wants to add another species to his tall kinds. "What," he asks, "would you recommend?"

Just a little less lovely than the best of the peach-leaved kinds are the better forms of *Campanula latifolia*. Although the florists give it a height of three or four feet, material grown from seeds grows about two feet tall here, but true variety *macrantha* does better, usually attaining a stature of three or four feet under good culture, and its flowers are both larger and longer. They are also a lovely deep violet instead of the lilac-blue of the type. Per-

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haps the loveliest of all latifolia forms is variety alba, with large, pure white flowers. One hears of variety Brantwood, in Europe, which is said to have large dark blue flowers as much as three inches in length. All these latifolia bellflowers, called latifolia because of their broad root leaves, some of which are three or four inches long and two or three inches wide, are good in ordinary border soil in sun or part shade, flowering during June and July. They are easily satisfied and are readily reproduced from divisions or from seeds except in named varieties.

#### Campanula Lactiflora.

If another tall bellflower is wanted, the inquirer could do worse than look up *Campanula lactiflora*.

The milk-white flowers of the type, which seem to have made up their minds to be pale blue, but stopped short of their goal after they acquired too much blue to be called white, are a little too wishy-washy to attract much attention from the casual gardener, but give them the light blue color of the variety *coerulea*, and you have a really good ornament that will draw the most jaded gardener to it. Garden material of this species never, in my experience, attains the 6-foot stature ascribed to it by the botanists, but a 3-foot plant carrying several large trusses of light blue, bell-shaped flowers from mid-June well into July is something to cherish.

Like the peach-leaved kinds, *C. lactiflora* is easily accommodated in sun or light shade, preferably the latter if the soil is light and dry. Propagation is as recommended for *C. latifolia*.

In this connection it might be added that *C. celtidifolia* is said to be a large-flowered form of *C. lactiflora* with flowers of a deeper blue. If that is true, it would be a truly valuable plant, and we should have it. Unfortunately, I have never been able to grow such a plant from seeds from several sources, though I once obtained a monocarpic plant under that label that I should like to find again. It was like a glorified *C. glomerata* in some ways, except that the tubes were shorter, being more like *C. lactiflora* in that respect, and it was invariably monocarpic, whether it took two, three or more years to bloom. There is much good material in *C. lactiflora*, its forms and related species that should be searched out and made available to gardeners.

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many good garden plants that are quite unknown. Thus the southwest has much material which could be used to advantage, some of it sufficiently hardy for northern gardens.

Of the latter, a violet cousin, *Hybanthus verticillatus*, should be of interest to gardens and, consequently, to gardeners in all sections of the country. It can scarcely be called spectacular, to be sure, but it is a pleasing, small plant when covered with red and white violetlike flowers in summer. My notes fail to say exactly when the event occurs, but I remember it as early summer. It grew about ten inches high here, making a good rock garden subject as well as a likely candidate for a position at the front of the border. Best of all, in the view of the northern gardener, it is quite hardy if one obtains material from the coldest part of its range. And it can stand a lot of abuse if given well drained soil in sun.

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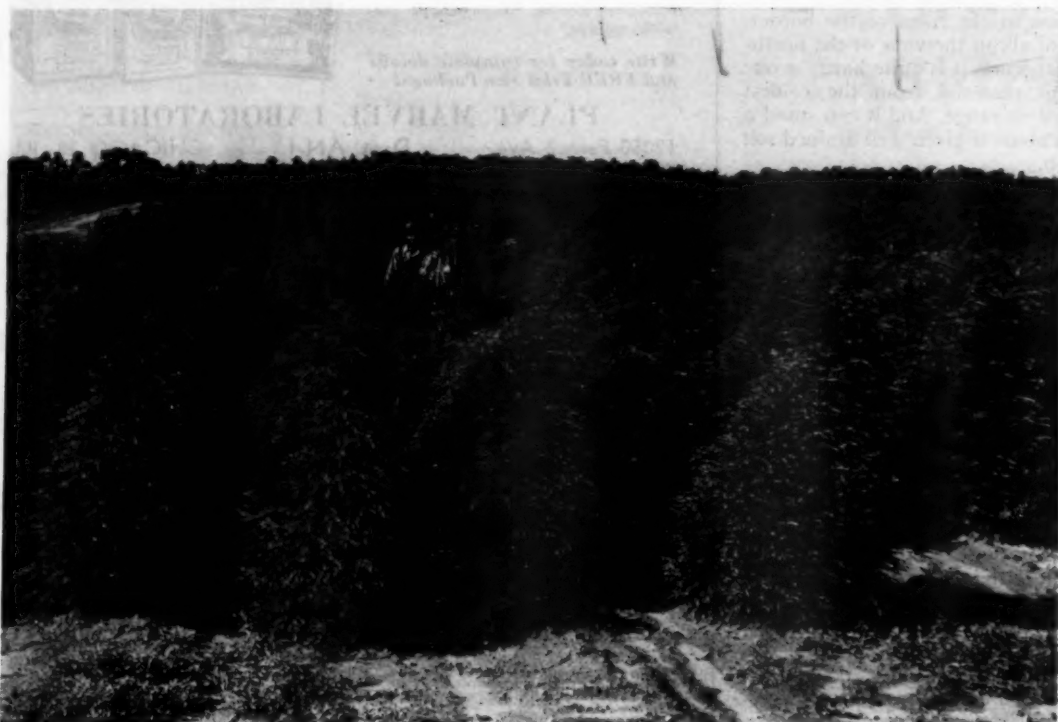
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## **GARDNER'S NURSERIES, Rocky Hill, Conn.**



TAXUS CAPITATA, 36 to 42-in. and 42 to 48-in. predominating. 60,000 in this block.



TAXUS CUSPIDATA, 18 to 24-in. and 24 to 30-in.

**Write for complete book showing 48 photographs of our main nursery of 250 acres.**

## "MEETING TIME AGAIN"

Our representatives will attend most of the coming meetings, particularly those of the nursery groups in the Middle West. We are looking forward to seeing you at:

Indiana	January 2, 3, 4 and 5
Eastern	January 3, 4 and 5
Missouri	January 8
Western	January 9 and 10
Iowa	January 11, 12 and 13
Illinois	January 15, 16, 17 and 18
Ohio	January 25 and 26
Michigan	January 24, 25 and 26

Bill Smart, Jens Ihrke and Jack Hill will be glad to discuss Spring Delivery Evergreens with you and to reserve such stock as you may require.

We all join in wishing you the best for the coming year.

# D. HILL NURSERY COMPANY

*Evergreen Specialists*

: - :

*Largest Growers In America*

DUNDEE, ILLINOIS